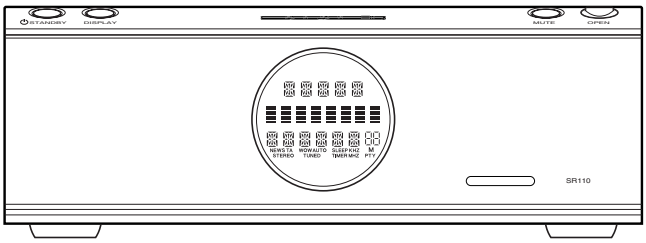
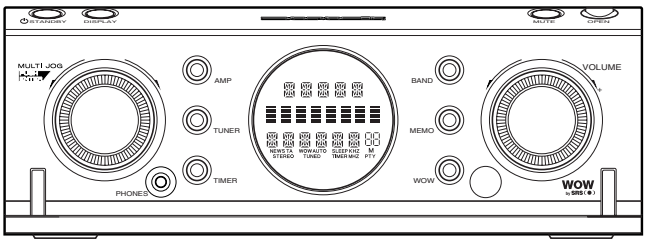
Service Manual

SR110 /F1S, /N1S, /U1S

Receiver





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Please use this service manual with referring to the user guide (D.F.U.) without fail.
修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

marantz®

SR110

323W855010 MIT
3120 785 22710
First Issue 2001.09

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

Parts for your **MARANTZ** equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS :

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order :

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

USA

MARANTZ AMERICA, INC.
1100 MAPLEWOOD DRIVE
ITASCA, IL. 60143
USA
PHONE : 630 - 741 - 0300
FAX : 630 - 741 - 0301

EUROPE / TRADING

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THE NETHERLANDS
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FAX : +31 - 40 - 2735578

BRAZIL

PHILIPS DA AMAZONIA IND. ELET. ITDA
CENTRO DE INFORMACOES AO
CEP 04698-970
SAO PAULO, SP, BRAZIL
PHONE : 0800 - 123123(Discagem Direta Gratuita)
FAX : +55 11 534. 8988

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MARANTZ PROFESSIONAL PRODUCTS
2640 WHITE OAK CIRCLE, SUITE A
AURORA, ILLINOIS 60504 USA
PHONE : 630 - 820 - 4800
FAX : 630 - 820 - 8103

PROFESSIONAL **AUSTRALIA**

TECHNICAL AUDIO GROUP PTY, LTD
558 DARLING STREET,
BALMAIN, NSW 2041,
AUSTRALIA
PHONE : 61 - 2 - 9810 - 5300
FAX : 61 - 2 - 9810 - 5355

CANADA

LENBROOK INDUSTRIES LIMITED
633 GRANITE COURT,
PICKERING, ONTARIO L1W 3K1
CANADA
PHONE : 905 - 831 - 6333
FAX : 905 - 831 - 6936

AUSTRALIA

QualiFI Pty Ltd,
24 LIONEL ROAD,
MT. WAVERLEY VIC 3149
AUSTRALIA
PHONE : +61 - (0)3 - 9543 - 1522
FAX : +61 - (0)3 - 9543 - 3677

THAILAND

MRZ STANDARD CO.,LTD
746 - 754 MAHACHAI ROAD.,
WANGBURAPAPIROM, PHRANAKORN,
BANGKOK, 10200 THAILAND
PHONE : +66 - 2 - 222 9181
FAX : +66 - 2 - 224 6795

SINGAPORE

WO KEE HONG DISTRIBUTION PTE LTD
130 JOO SENG ROAD
#03-02 OLIVINE BUILDING
SINGAPORE 368357
PHONE : +65 858 5535 / +65 381 8621
FAX : +65 858 6078

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WILDASH AUDIO SYSTEMS NZ
14 MALVERN ROAD MT ALBERT
AUCKLAND NEW ZEALAND
PHONE : +64 - 9 - 8451958
FAX : +64 - 9 - 8463554

TAIWAN

PAI- YUING CO., LTD.
6 TH FL NO, 148 SUNG KIANG ROAD,
TAIPEI, 10429, TAIWAN R.O.C.
PHONE : +886 - 2 - 25221304
FAX : +886 - 2 - 25630415

MALAYSIA

WO KEE HONG ELECTRONICS SDN. BHD.
SUITE 8.1, LEVEL 8, MENARA GENESIS,
NO. 33, JALAN SULTAN ISMAIL,
50250 KUALA LUMPUR, MALAYSIA
PHONE : +60 3 - 2457677
FAX : +60 3 - 2458180

JAPAN *Technical*

MARANTZ JAPAN, INC.
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営業本部　〒150-0022
東京都渋谷区恵比寿南1-11-9

KOREA

MK ENTERPRISES LTD.
ROOM 604/605, ELECTRO-OFFICETEL, 16-58,
3GA, HANGANG-RO, YONGSAN-KU, SEOUL
KOREA
PHONE : +822 - 3232 - 155
FAX : +822 - 3232 - 154

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard No. 1492.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

1. TECHNICAL SPECIFICATIONS

FM TUNER SECTION

Frequency Range ..... 76.0 - 90.0 MHz (F version)
87.5 - 108.0 MHz (N, U version)
Usable Sensitivity ..... 0 dBμ
Signal to Noise Ratio ..... Mono/Stereo 70/65 dB
Distortion ..... Mono/Stereo 0.2/0.3 %
Stereo Separation ..... 1 kHz 40 dB
Image Rejection ..... 98 MHz 80 dB
Tuner Output Level ..... 1 kHz, ± 40 kHz Dev 500 mV

AM TUNER SECTION

Frequency Range ..... LW: 152 - 282 kHz (N version)
MW: 531 - 1602 kHz (F, N version)
MW: 520 - 1710 kHz (U version)
Signal to Noise Ratio ..... 40 dB
Usable Sensitivity ..... Loop 500 μV
Distortion ..... 400 Hz, 30 % Mod. 0.5 %
Selectivity ..... ± 18 kHz 30 dB

AUDIO SECTION

THD 10 % ..... 6 ohms 25W / Ch
Continuous Power Output
(40 Hz - 20 kHz) ..... 8 ohms 21W / Ch
THD (40 Hz - 20 kHz) at 21 W output ..... 8 ohms 0.08 %
Input Sensitivity/Impedance
Linear ..... 200 mV/ 47 Kohms
Signal to Noise Ratio
Linear (1 W) ..... 80 dB

GENERAL

Power Requirement ..... AC 100 V 50 / 60 Hz (F version)
AC 230 V 50 Hz (N version)
AC 120 V 60 Hz (U version)
Power Consumption (STEREO MODE RATED POWER) ..... 58 W (0.7A)
Dimension (MAX)
Width ..... 210 mm (8-1/4 inches)
Height ..... 71.5 mm (2-3/4 inches)
Depth ..... 310 mm (12-3/16 inches)
Weight ..... 4.3 kg (9.5 lbs)

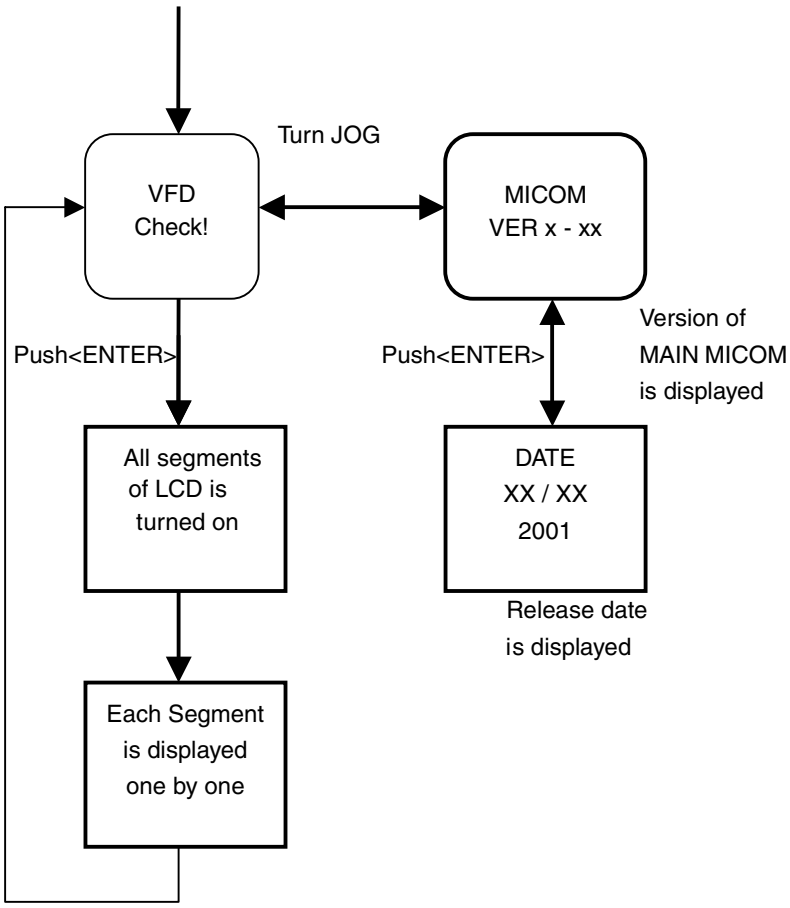
ACCESSORIES

Remote Control Unit (RC110SR) 1
Dimension (W x H x D) (MAX) ..... 57 x 196.5 x 27 mm (2-1/2 x 7-3/4 x 1-1/8 inches)
Weight ..... 90 g (0.2 lbs)
AA Type Batteries 2
FM Feeder Antenna 1
AM Loop Antenna 1

Specifications subject to change without prior notice.

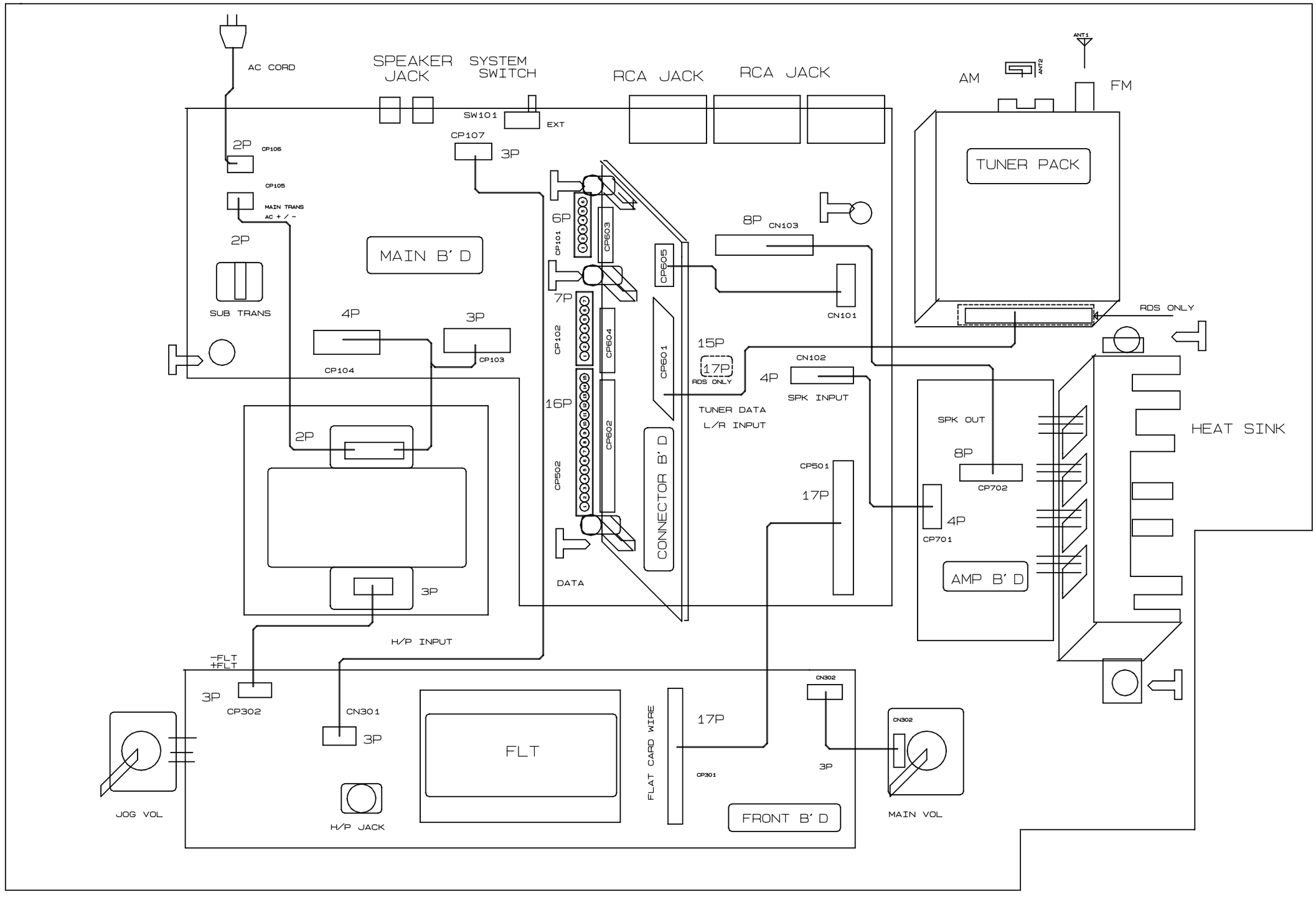
2. SERVICE MODE

While pressing <DISPLAY> plug in the Mains cord.

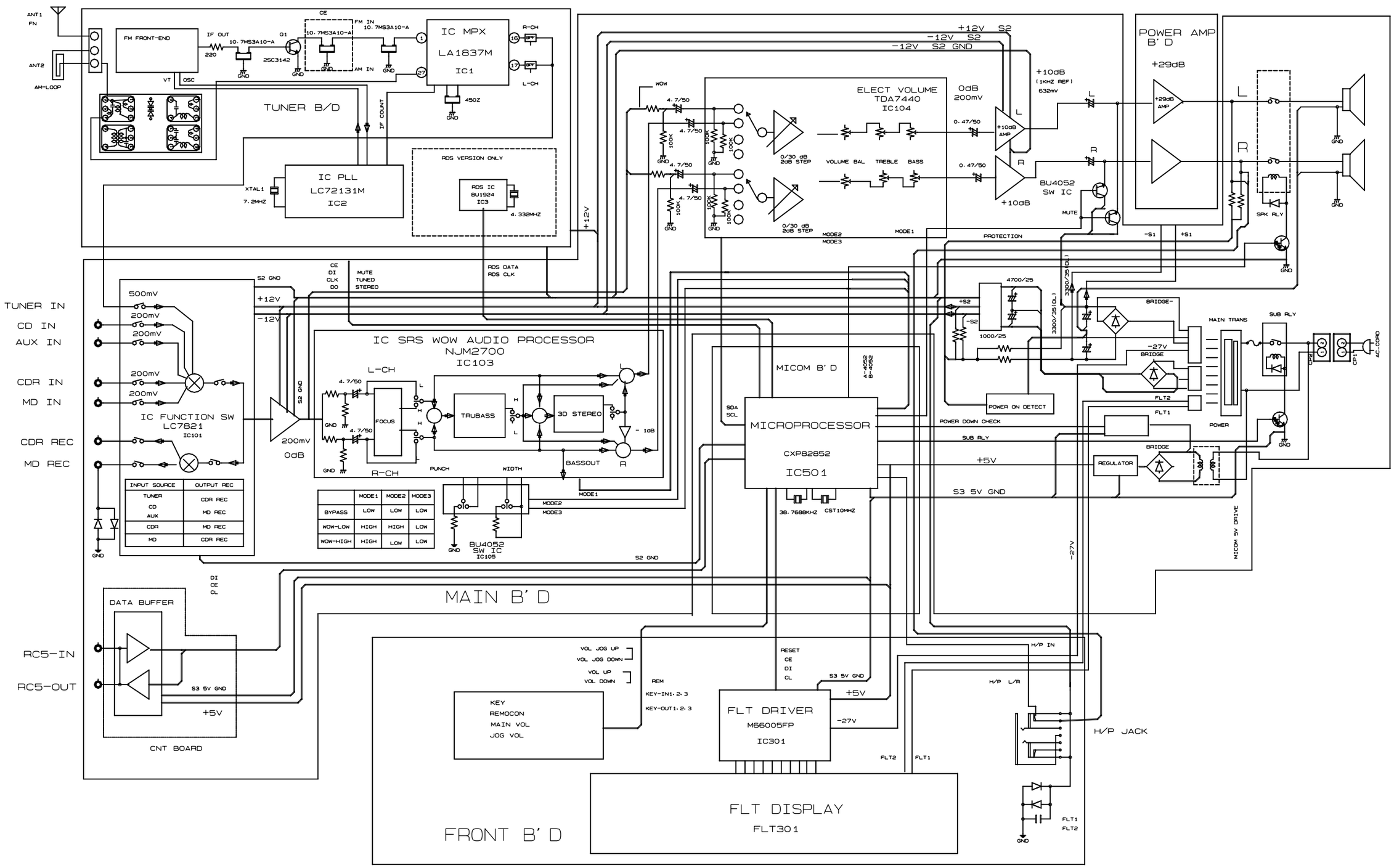


Push <STANDBY> to quit Service mode

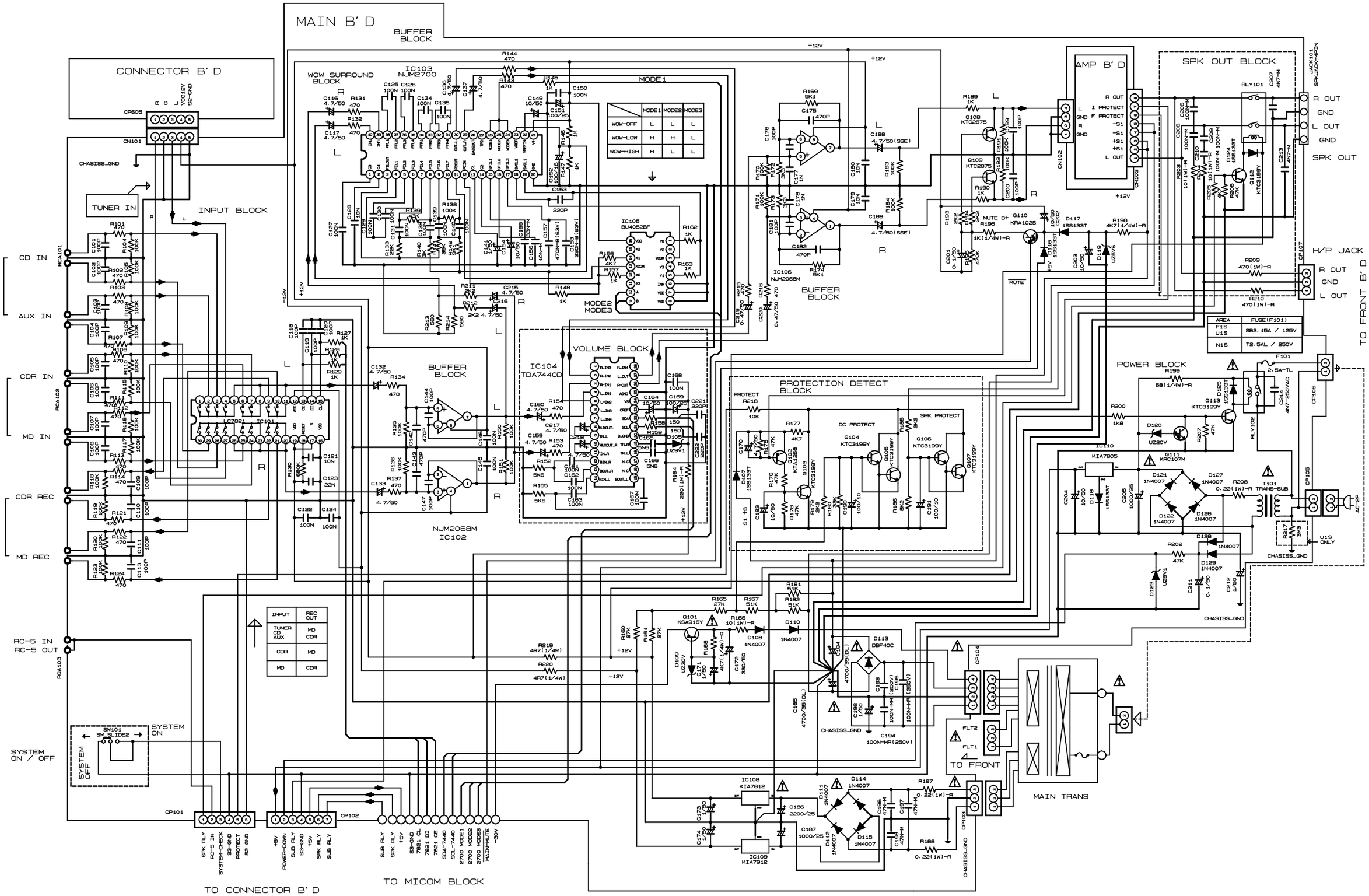
3. WIRING DIAGRAM



4. BLOCK DIAGRAM



5. SCHEMATIC DIAGRAM



MICOM BLOCK

IC501

CXP82852

SR-110 AREA OPTION					
		U VER	N VER	F VER	
STEP OPTION	R510	47K	10K	—	
	R511	—	4K7	47K	
		(+5V)	(+3.4V)	(0V)	
RDS		NON RDS	RDS	NON RDS	

TO CONNECTOR B' D

TO MAIN BLOCK

(TO SHEET 1)

FROM FRONT B' D

FROM MAIN

AMP B' D

7020-06081-001-0

TO MAIN

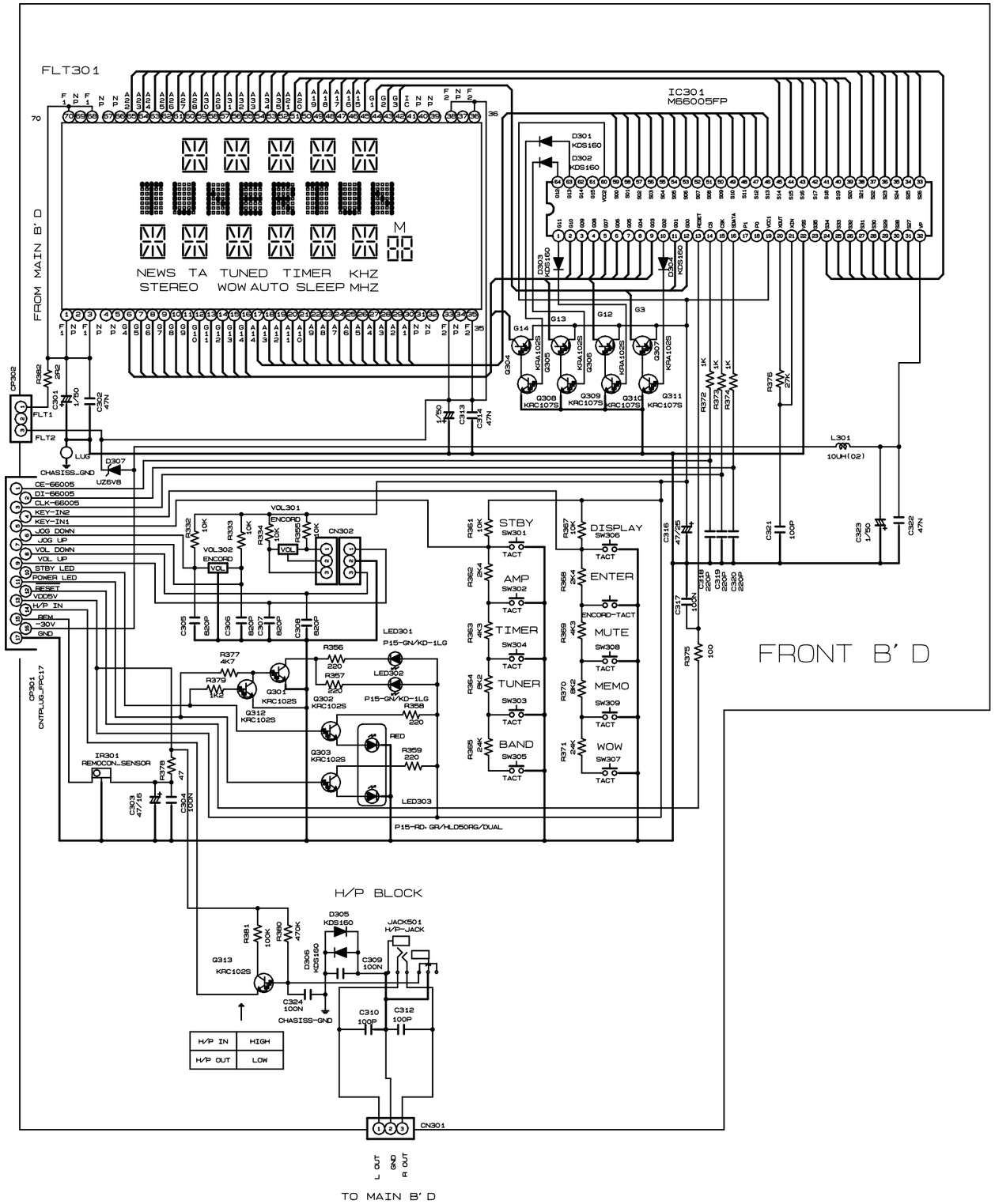
CONNECTOR B' D

7020-06081-002-0

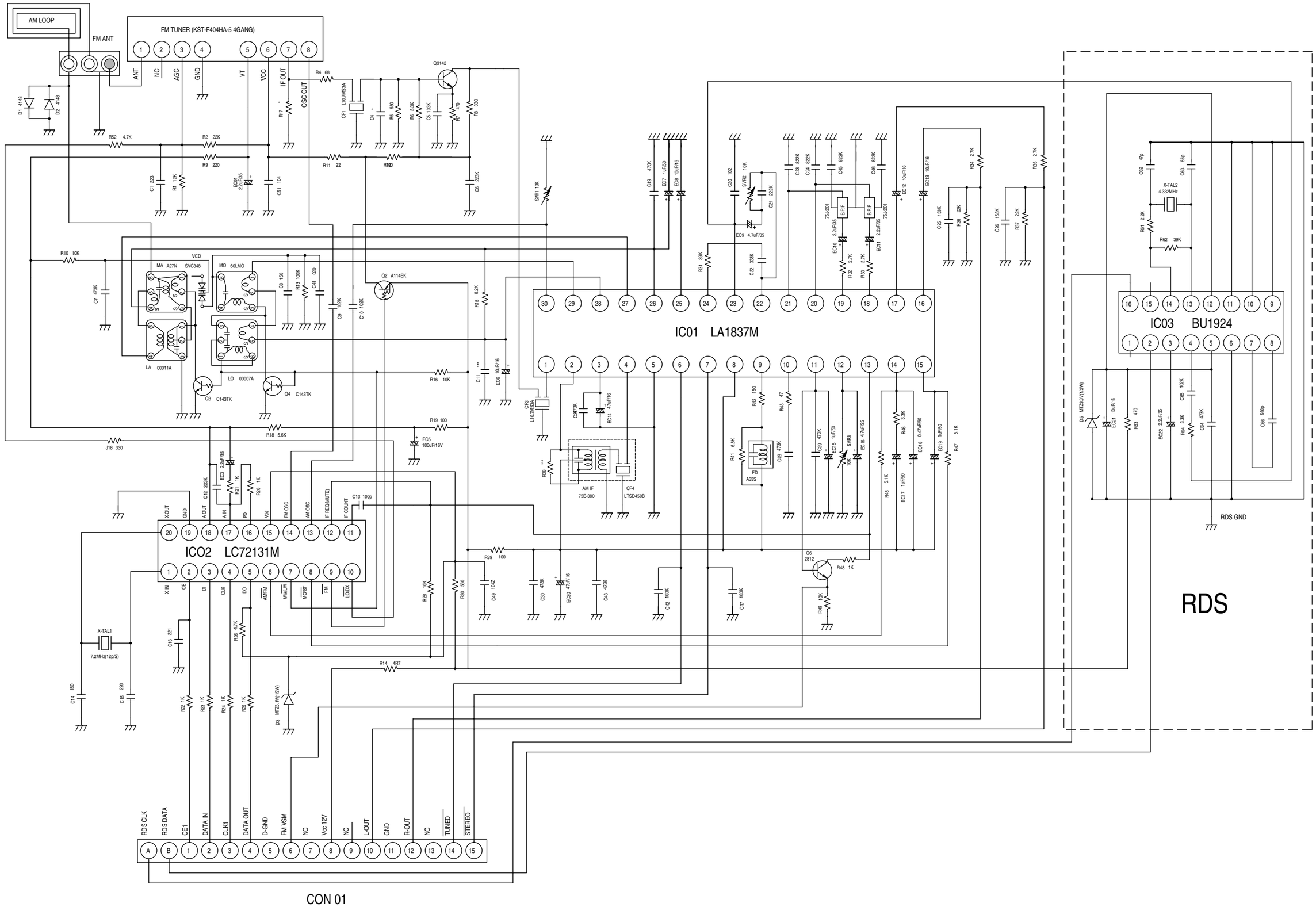
FROM TUNER

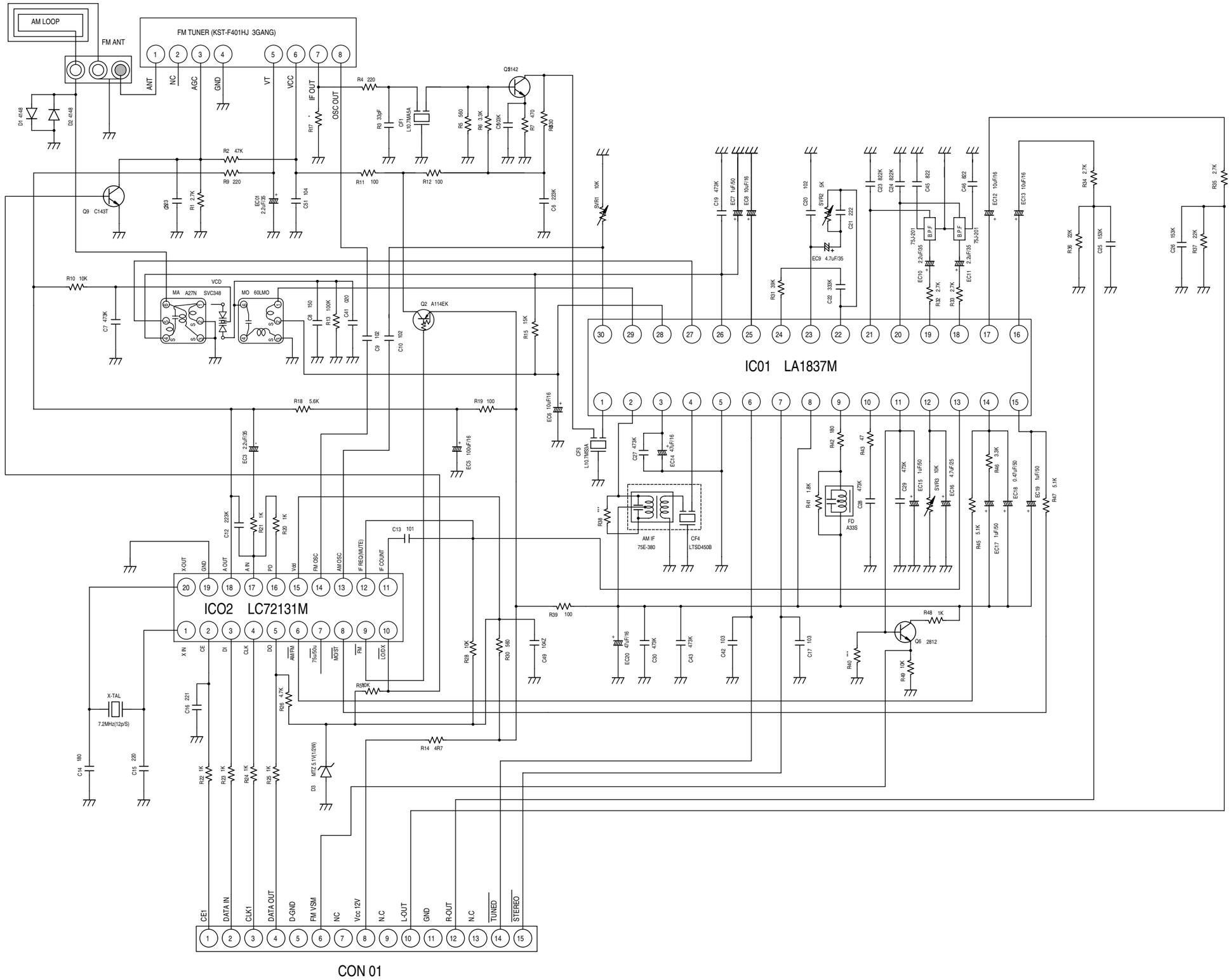
TO MAIN B' D

TO MAIN B' D

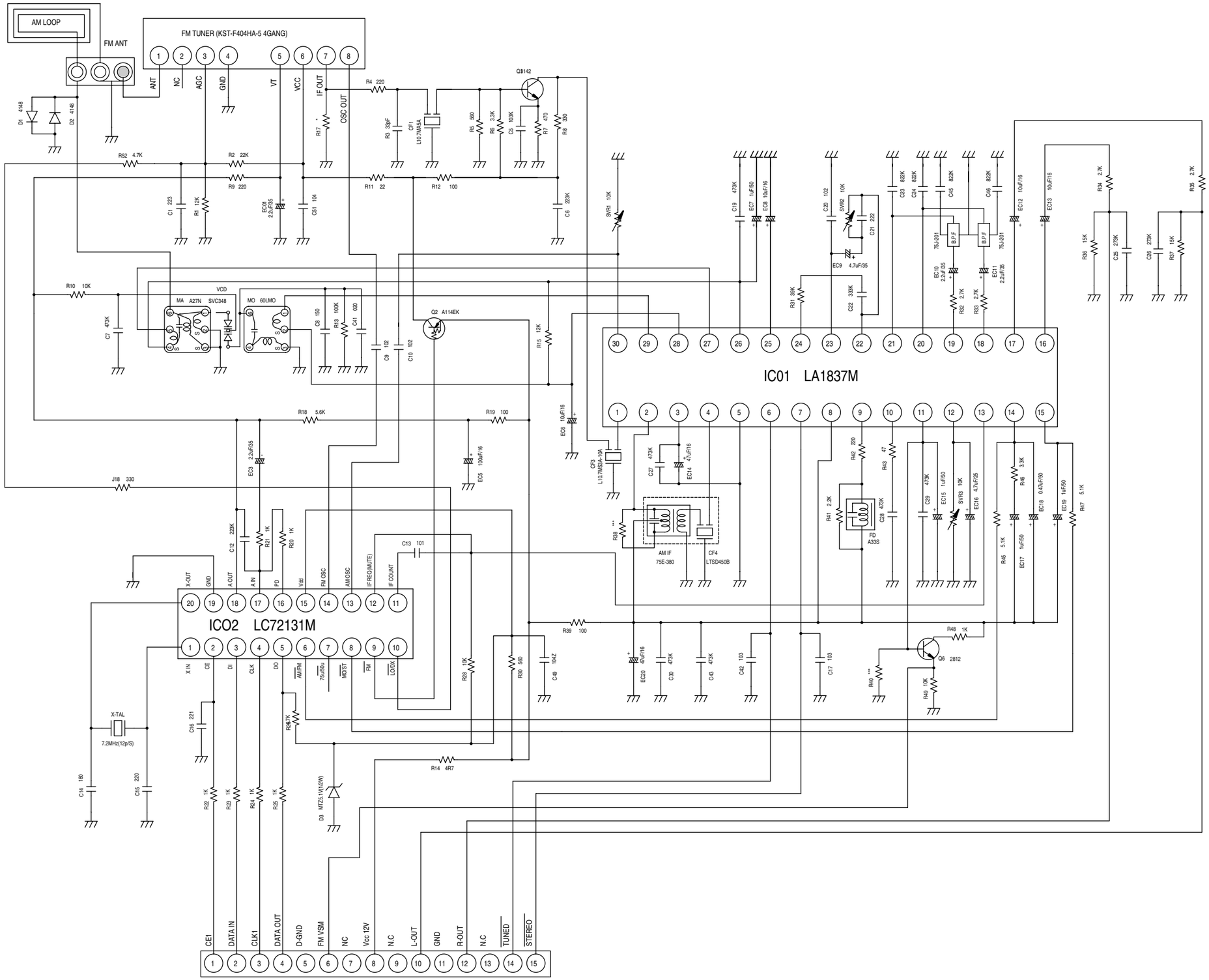

FLT301
FROM MAIN B' D
NEWS TA TUNED TIMER KHZ
STEREO WOW AUTO SLEEP MHZ
IC301
M66005FP
D301
KDS160
D302
KDS160
D303
KDS160
D304
KDS160
CP302
FLT1
FLT2
LUG
CHASISS_GND
D307
UZ6V8
L301
10UH(02)
CE-66005
DI-66005
CLK-66005
KEY-IN2
KEY-IN1
JOG DOWN
JOG UP
VOL DOWN
VOL UP
STBY LED
POWER LED
RESET
VDD5V
H/P IN
REM
-30V
GND
CP301
CNTPLUG_FFC17
VOL301
VOL302
ENCORD
VOL
CN302
STBY
SW301
AMP
SW302
TIMER
SW304
TUNER
SW303
BAND
SW305
DISPLAY
SW306
ENTER
ENCORD-TACT
MUTE
SW308
MEMO
SW309
WOW
SW307
TACT
LED301
P15-GN/KD-1LG
LED302
P15-GN/KD-1LG
RED
LED303
P15-RD. GR/HLD50RG/DUAL
IR301
REMOCON_SENSOR
H/P BLOCK
D305
KDS160
D306
KDS160
JACK501
H/P-JACK
Q313
KRC102S
CN301
H/P IN
HIGH
H/P OUT
LOW
TO MAIN B' D
FRONT B' D

TUNER /N1S


AM LOOP
FM ANT
FM TUNER (KST-F404HA-5 4GANG)
ANT
NC
AGC
GND
VT
VCC
IF OUT
OSC OUT
Q3142
D1 4148
D2 4148
R52 4.7K
R2 22K
R9 220
R4 68
R17
CF1 L10.7MS3A
C4
R5 560
R6 3.3K
C5 103K
R7 470
R8 330
R11 22
R100
C1 223
R1 12K
EC01 2.2uF/35
C51 104
C6 223K
SVR1 10K
C19 473K
EC7 1uF/50
EC8 10uF/16
C20 102
SVR2 10K
C21 222K
EC9 4.7uF/35
C23 822K
C24 822K
C45 822K
C46 822K
75J-201
B.P.F
EC10 2.2uF/35
EC11 2.2uF/35
R31 39K
C22 333K
R32 2.7K
R33 2.7K
EC12 10uF/16
EC13 10uF/16
R34 2.7K
R35 2.7K
C25 153K
R36 22K
C26 153K
R37 22K
R10 10K
VCD
MA A27N SVC348
MO 60LMO
C7 473K
C8 150
R13 100K
C41 020
C9 102K
C10 102K
Q2 A114EK
R15 8.2K
LA 00011A
LO 00007A
Q3 C143TK
Q4 C143TK
R16 10K
C11
EC6 10uF/16
R19 100
R18 5.6K
EC5 100uF/16V
J18 330
IC01 LA1837M
CF3 L10.7MS3A
C27 473K
EC14 47uF/16
R38
AM IF 75E-380
CF4 LTSD450B
R42 150
R43 47
R41 6.8K
FD A33S
C28 473K
C29 473K
EC15 1uF/50
SVR3 10K
EC16 4.7uF/25
R46 3.3K
R45 5.1K
EC17 1uF/50
EC18 0.47uF/50
EC19 1uF/50
R47 5.1K
C12 220K
EC3 2.2uF/35
R21 1K
R20 1K
C13 100p
ICO2 LC72131M
X-OUT
GND
A.OUT
A.IN
PD
Vdd
FM OSC
AM OSC
IF REQ(MUTE)
IF COUNT
X IN
CE
DI
CLK
DO
AM/FM
MW/LW
MO/ST
FM
LO/DX
R39 100
R28 10K
R30 360
C49 104Z
C50 473K
EC20 47uF/16
C43 473K
C42 103K
C17 103K
Q6 2812
R48 1K
R49 10K
X-TAL1
7.2MHz(12p/S)
C16 221
R26 4.7K
R14 4R7
C14 180
C15 220
R22 1K
R23 1K
R24 1K
R25 1K
D3 MTZ5.1V(1/2W)
RDS CLK
RDS DATA
CE1
DATA IN
CLK1
DATA OUT
D-GND
FM VSM
NC
Vcc 12V
NC
L-OUT
GND
R-OUT
NC
TUNED
STEREO
CON 01
IC03 BU1924
D5 MTZ3.3V(1/2W)
EC21 10uF/16
R63 470
C62 47p
C63 56p
X-TAL2
4.332MHz
R61 2.2K
R62 39K
EC22 2.2uF/35
R64 3.3K
C65 102K
C64 472K
C66 560p
RDS GND
RDS

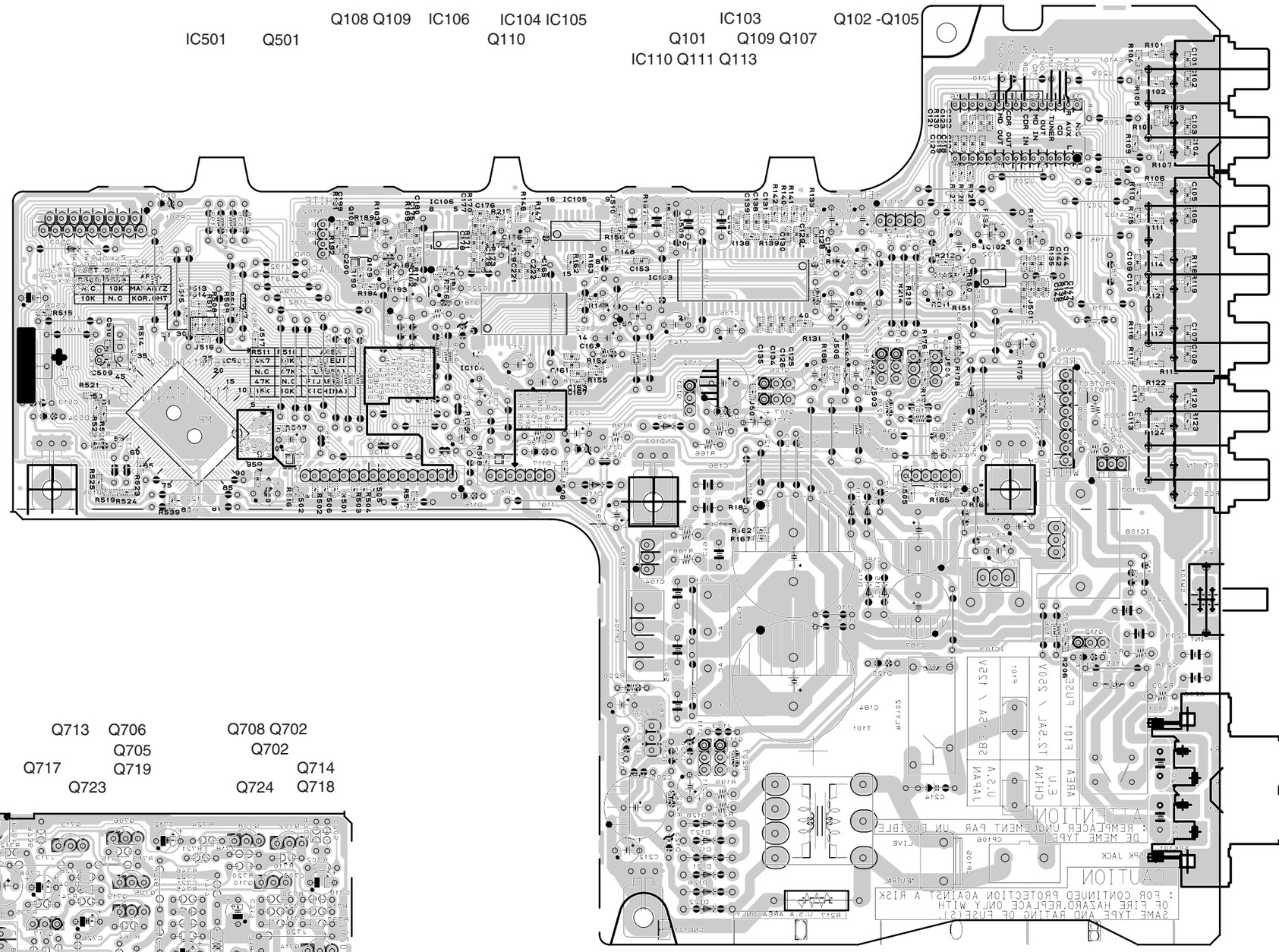

AM LOOP
FM ANT
FM TUNER (KST-F401HJ 3GANG)
ANT
NC
AGC
GND
VT
VCC
IF OUT
OSC OUT
D1 4148
D2 4148
Q9 C143T
Q$142
Q2 A114EK
VCD
MA A27N SVC348
MO 60LMO
IC01 LA1837M
ICO2 LC72131M
X-TAL
7.2MHz(12p/S)
MTZ 5.1V(1/2W)
AM IF
75E-380
CF4
LTSD450B
FD
A338
Q6 2812
CON 01
CE1
DATA IN
CLK1
DATA OUT
D-GND
FM VSM
NC
Vcc 12V
N.C
L-OUT
GND
R-OUT
N.C
TUNED
STEREO

TUNER /U1S

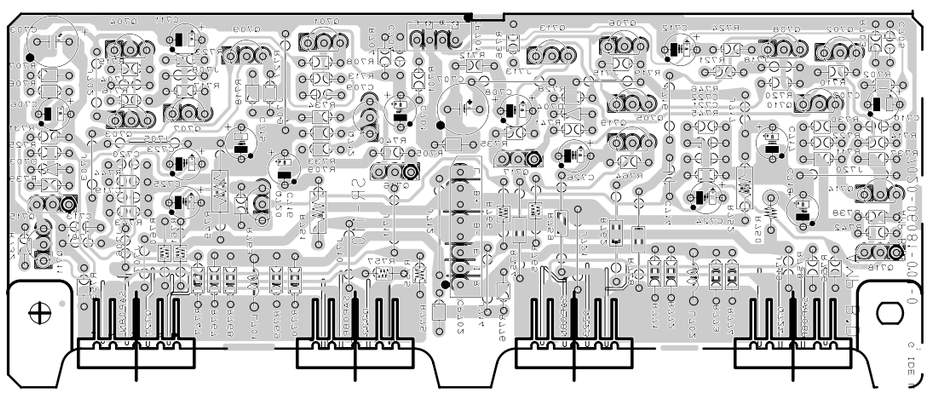

AM LOOP
FM ANT
FM TUNER (KST-F404HA-5 4GANG)
ANT
NC
AGC
GND
VT
VCC
IF OUT
OSC OUT
D1 4148
D2 4148
R4 220
R3 33pF
CF1 L10.7MA5A
R5 360
R6 3.3K
C5 103K
R7 470
R8 330
Q8142
R52 4.7K
R2 22K
R9 220
R11 22
R12 100
C1 223
R1 12K
EC01 2.2uF/35
C51 104
C6 223K
SVR1 10K
R10 10K
VCD
MA A27N SVC348
MO 60LMO
C7 473K
C8 150
R13 100K
C41 020
C9 102
C10 102
Q2 A114EK
R15 12K
R18 5.6K
R19 100
EC3 2.2uF/35
EC5 100uF/16
EC6 10uF/16
CF3 L10.7MS3A-10A
J18 330
C27 473K
EC14 47uF/16
R38 ***
AM IF 75E-380
CF4 LTSD450B
C13 101
C12 223K
R21 1K
R20 1K
IC01 LA1837M
C19 473K
EC7 1uF/50
EC8 10uF/16
C20 102
SVR2 10K
C21 222
EC9 4.7uF/35
R31 39K
C22 333K
C23 822K
C24 822K
C45 822K
C46 822K
75J-3201
B.P.F
EC10 2.2uF/35
EC11 2.2uF/35
R32 2.7K
R33 2.7K
EC12 10uF/16
EC13 10uF/16
R34 2.7K
R35 2.7K
R36 15K
C25 270K
C26 270K
R37 15K
R42 220
R43 47
R41 2.2K
FD A33S
C28 470K
C29 473K
EC15 1uF/50
SVR3 10K
EC16 4.7uF/25
R46 3.3K
R45 5.1K
EC17 1uF/50
EC18 0.47uF/50
EC19 1uF/50
R47 5.1K
ICO2 LC72131M
X-OUT
GND
A OUT
A IN
PD
Vdd
FM OSC
AM OSC
IF REQ(MUTE)
IF COUNT
X IN
CE
DI
CLK
DO
AM/FM
75uS/50u
MOST
FM
LO/IX
R39 100
R48 1K
Q6 2812
R49 10K
R40 ***
R28 10K
R30 560
C49 104Z
EC20 47uF/16
C30 473K
C43 473K
C42 103
C17 103
X-TAL
7.2MHz(12p/S)
C16 221
R24 7K
R14 4R7
C14 180
C15 220
R22 1K
R23 1K
R24 1K
R25 1K
D3 MTZ5.1W(2W)
CON 01
CE1
DATA IN
CLK1
DATA OUT
D-GND
FM VSM
N/C
Vcc 12V
N.C
L-OUT
GND
R-OUT
N.C
TUNED
STEREO

6. PARTS LOCATION (Pattern Side)

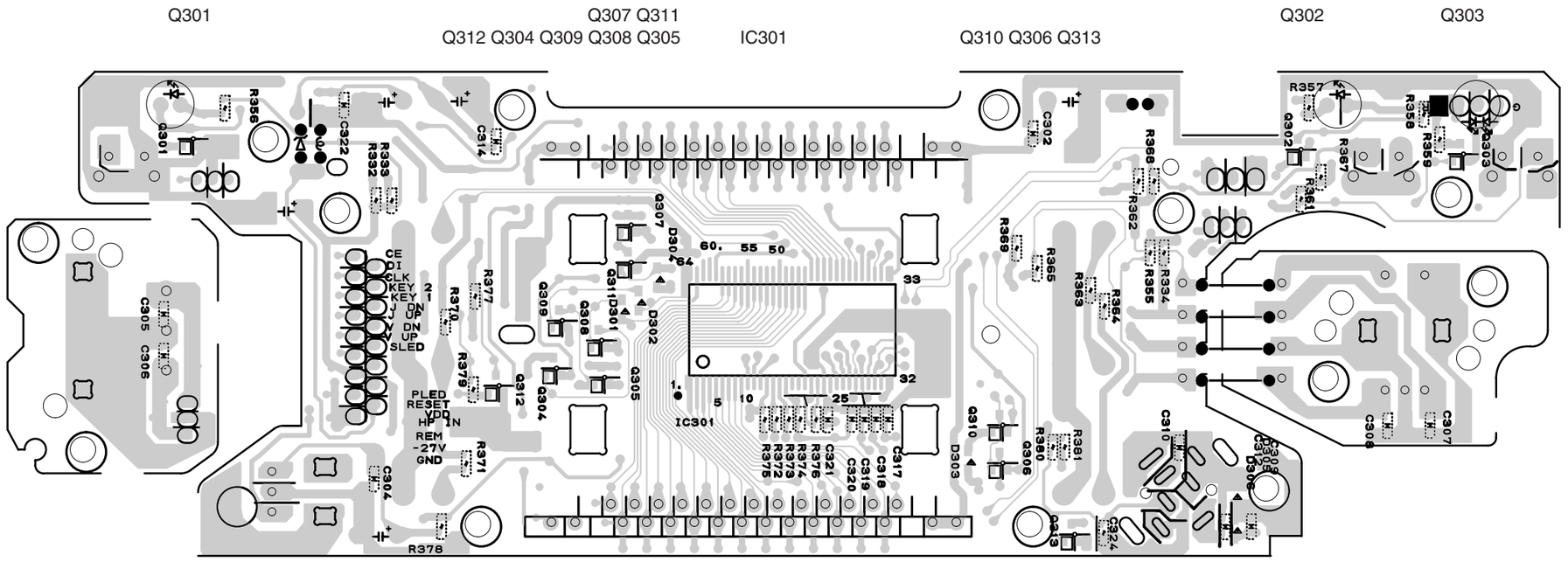
MAIN

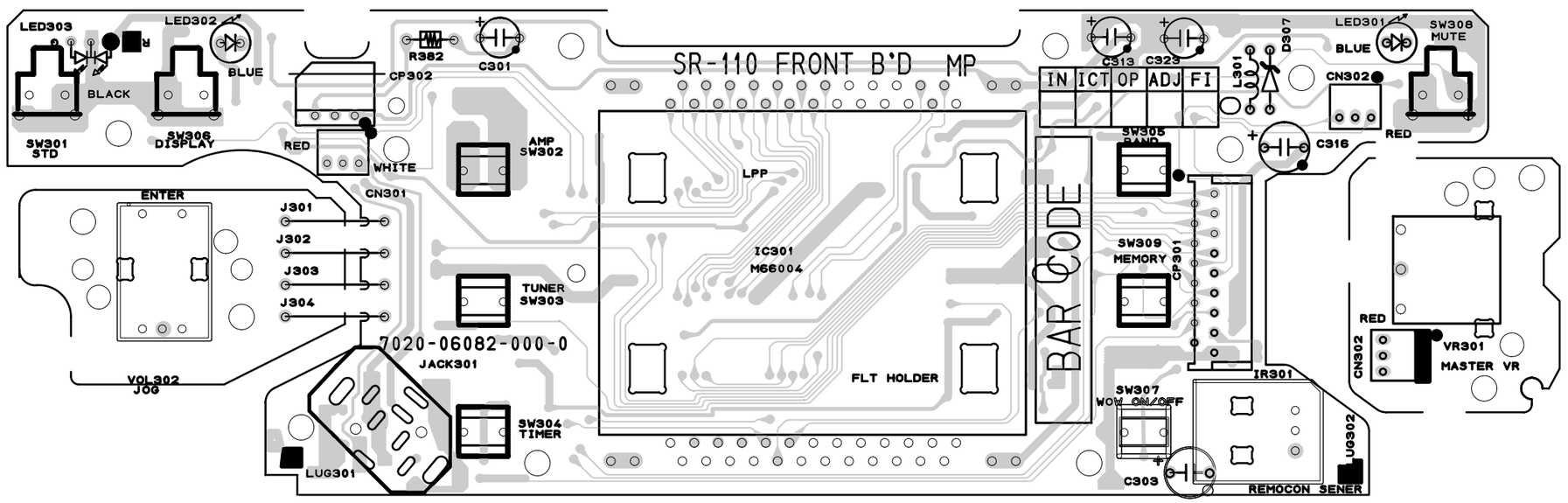


AMP



FRONT

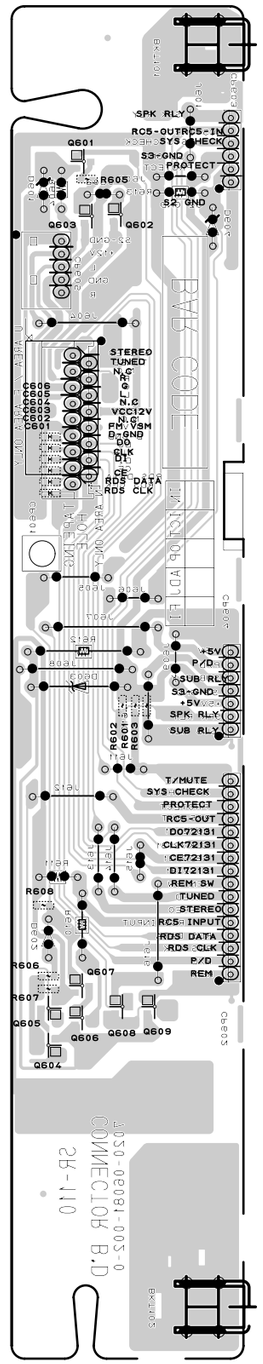




CONNECTOR

Q601 - Q603

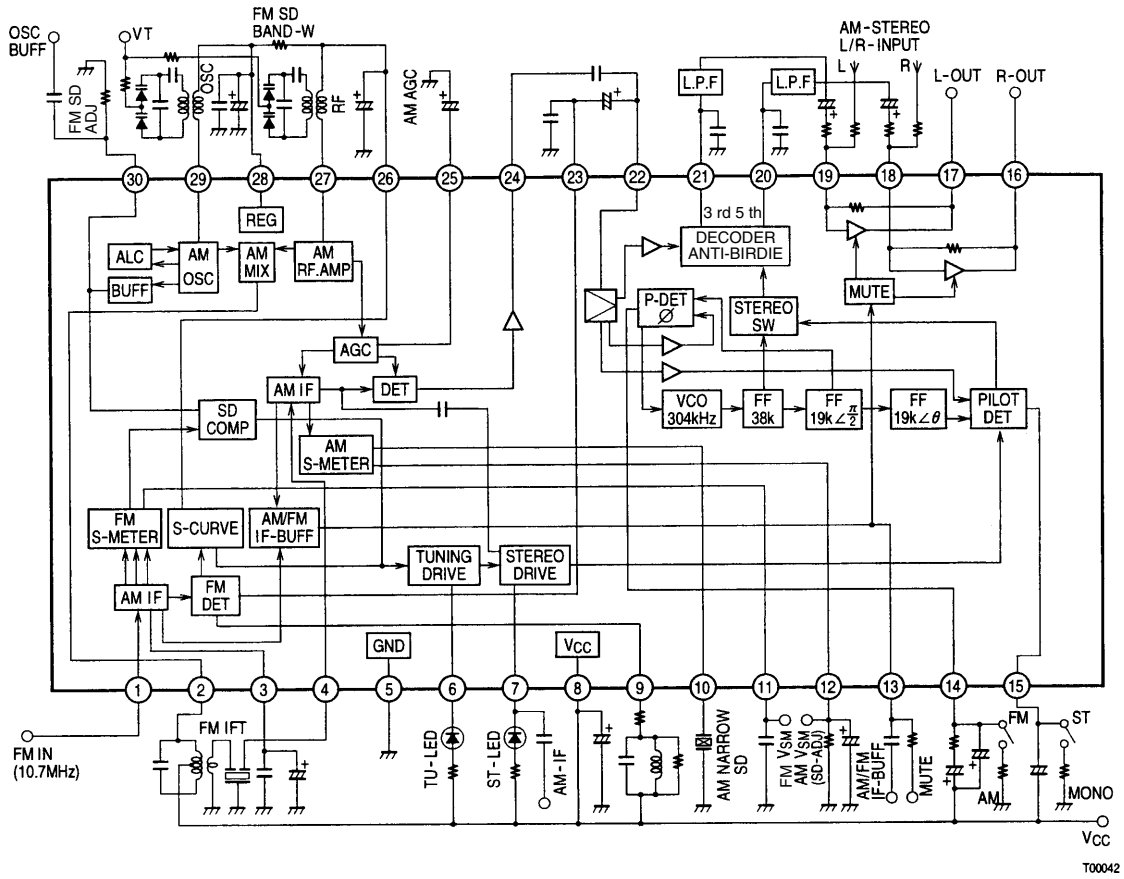
Q604 - Q609



7. IC DATA

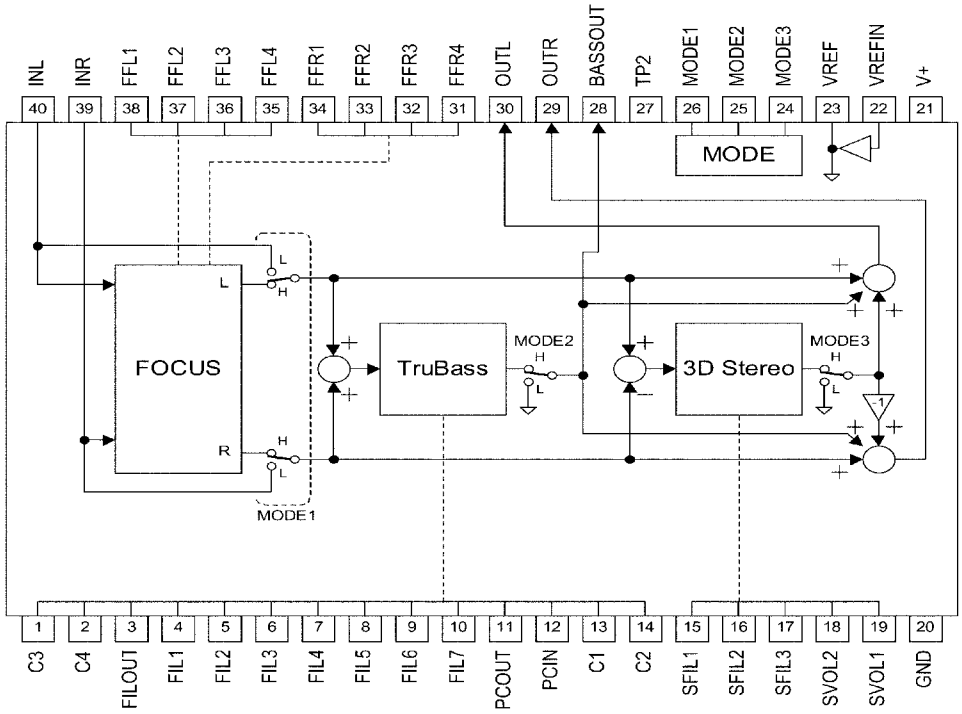
IC01:LA1837

Block Diagram



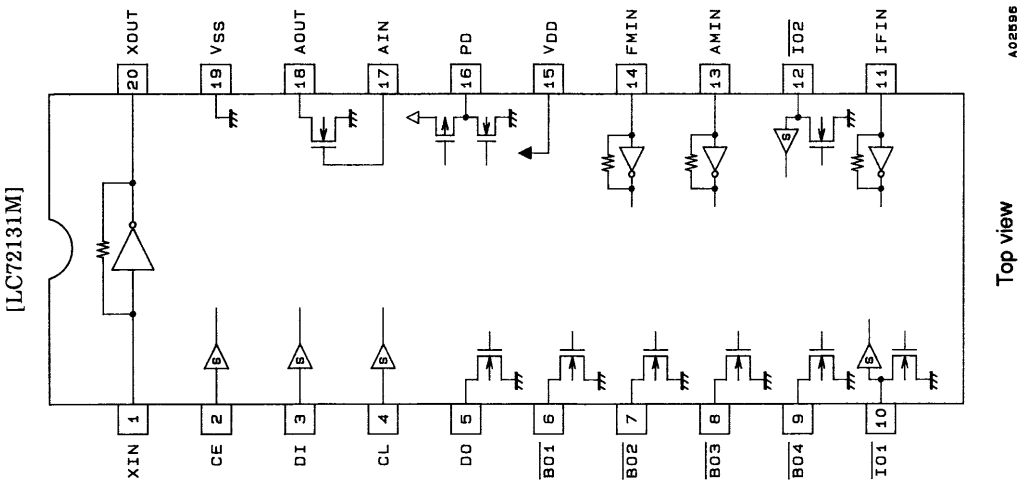
IC103:NJM2700

BLOCK DIAGRAM

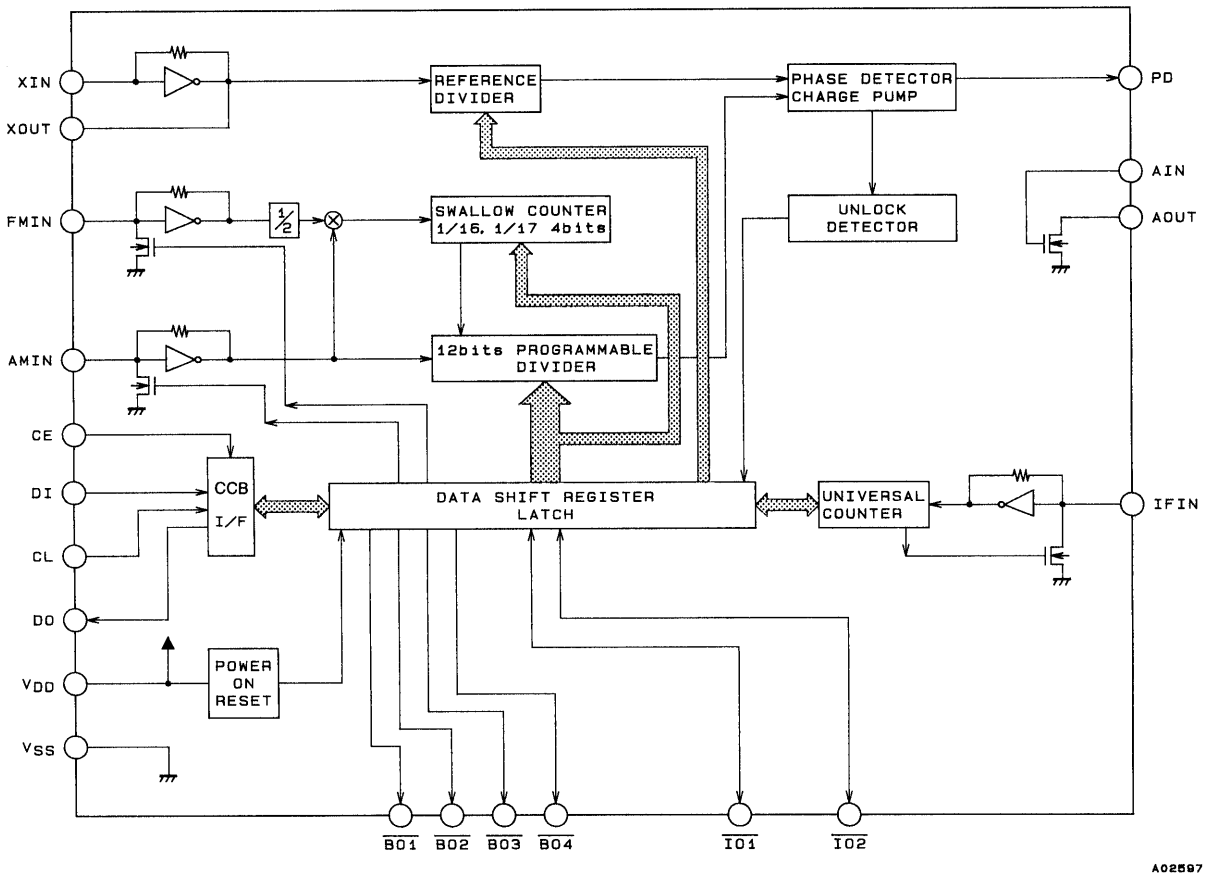


IC02:LC72131

Pin Assignment

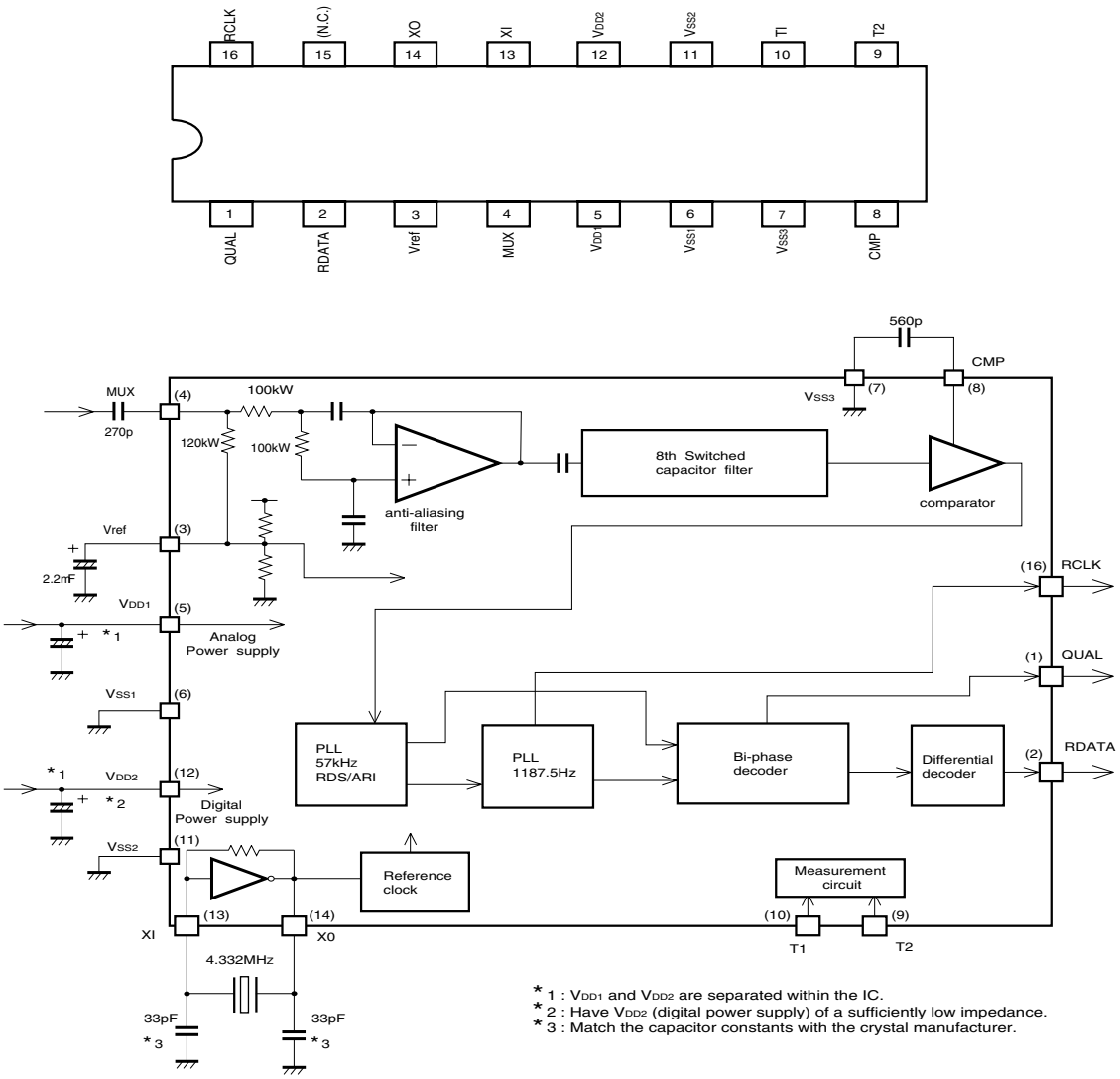


Block Diagram



IC03:BU1924

Block Diagram

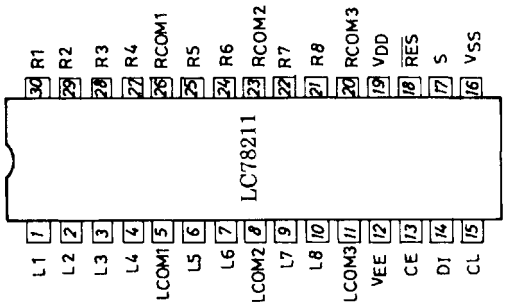


Pin Descriptions

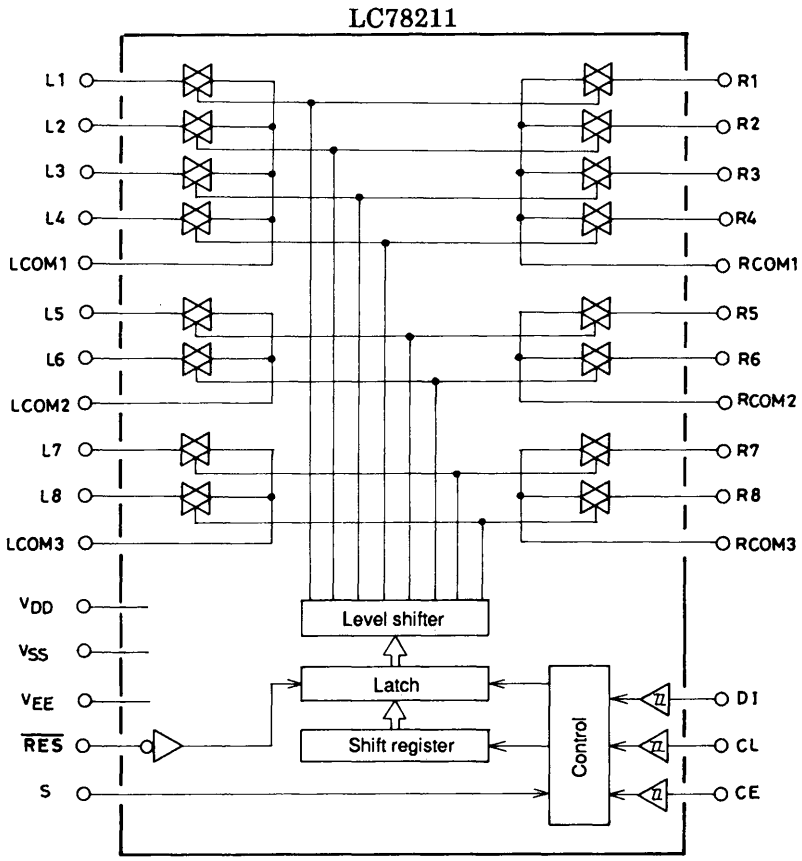
Pin No.	Symbol	Pin name	Function	Input/output type
1	QUAL	Demodulator quality	Good data : High, bad data : Low	Type C
2	RDATA	Demodulator data	Refer to output data timing	-
3	Vref	Reference voltage	1/2 V_{DD1} (refer to input/output circuits)	Type E
4	MUX	Input	Composite signal input (refer to input/output circuits)	Type D
5	V_{DD1}	Analog power supply	4.5V to 5.5V	-
6	V_{SS1}			
7	CMP	Comparator input	C-junction (refer to input/output circuits)	Type D
8	V_{SS3}	GND	-	-
9	T2	Test input	Open or connected to ground	Type B
10	T1			
11	V_{DD2}	Digital power supply	4.5V to 5.5V	-
12	V_{SS2}			
13	XI	Crystal oscillator	Connects to 4.332MHz oscillator (refer to input/output circuits)	Type A
14	XO			
15	(N.C.)	-	-	-
16	RCLK	Demodulator clock	1187.5Hz clock (refer to the timing diagram)	Type C

IC101:LC78211

Pin Assignments

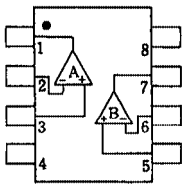


Equivalent Circuit Block Diagrams



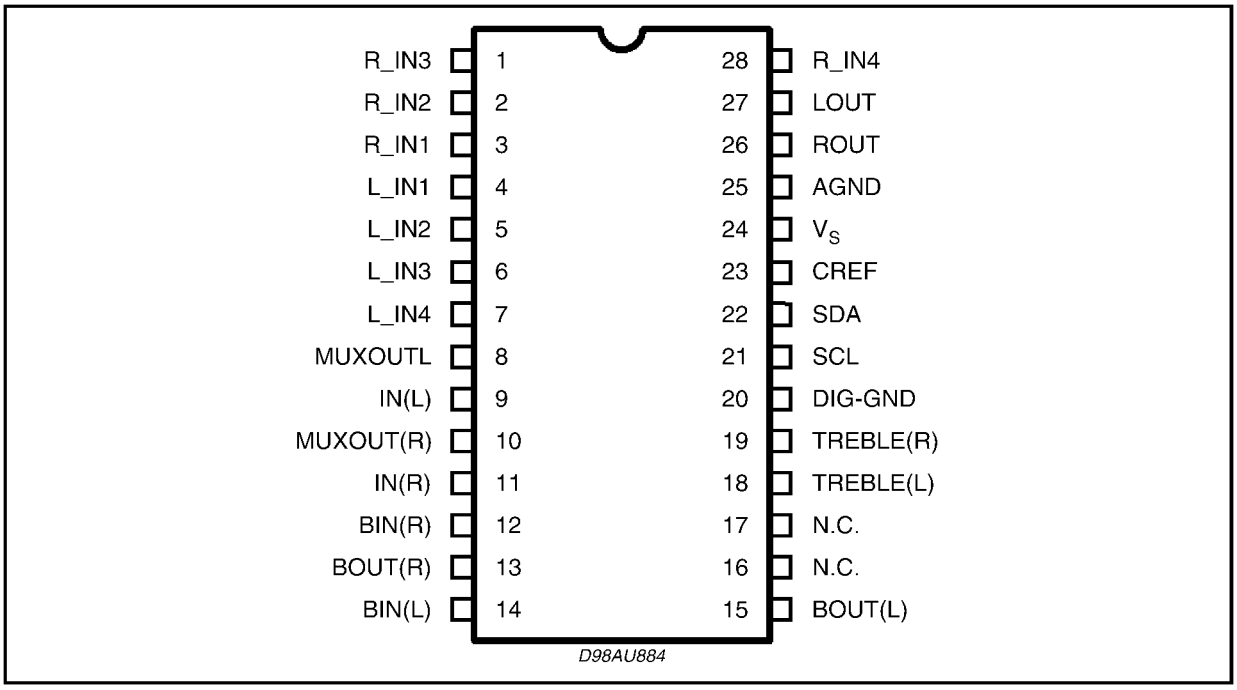
IC102/IC106:NJM2068

Pin Configuration

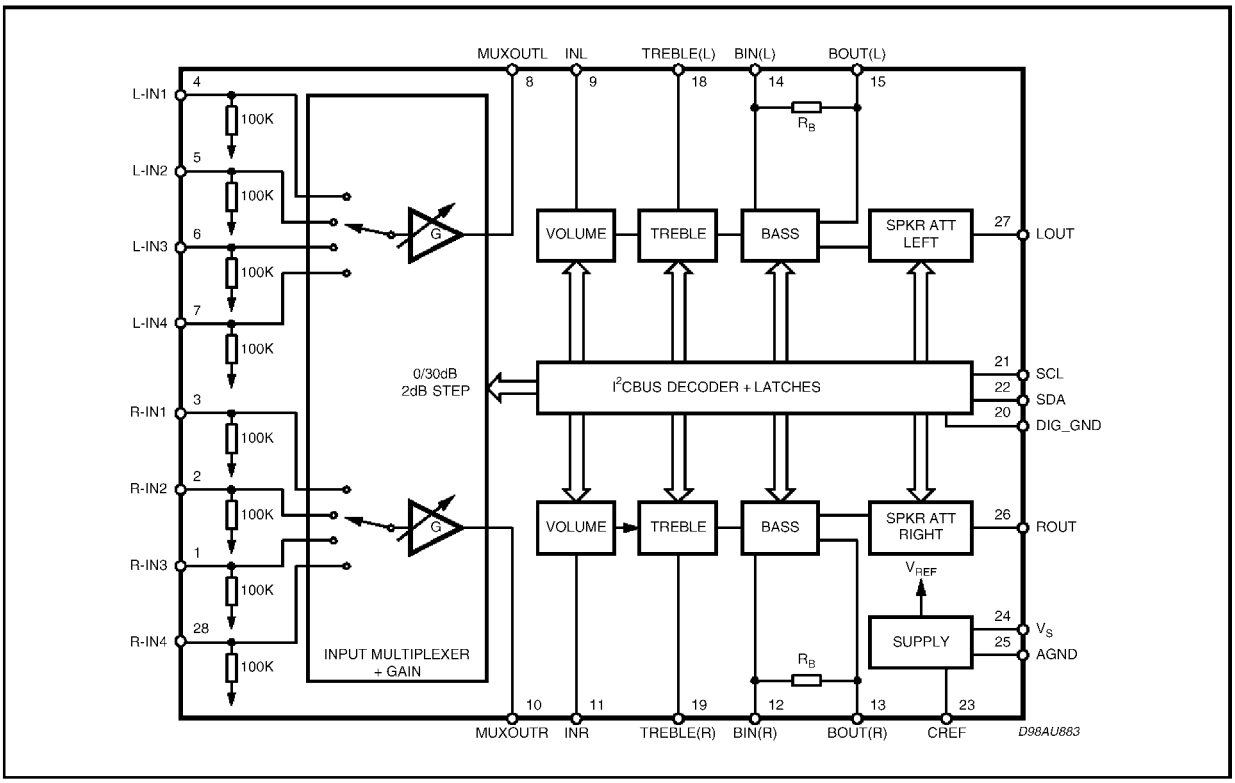


PIN FUNCITON
1. A OUTPUT
2. A−INPUT
3. A+INPUT
4. V⁻
5. B+INPUT
6. B−INPUT
7. B OUTPUT
8. V⁺

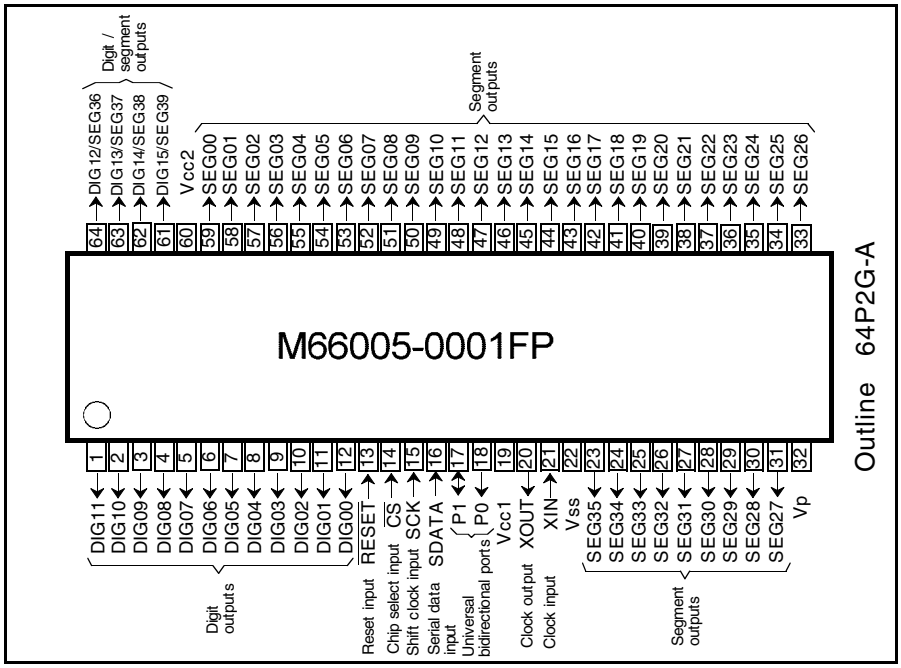
PIN CONNECTION



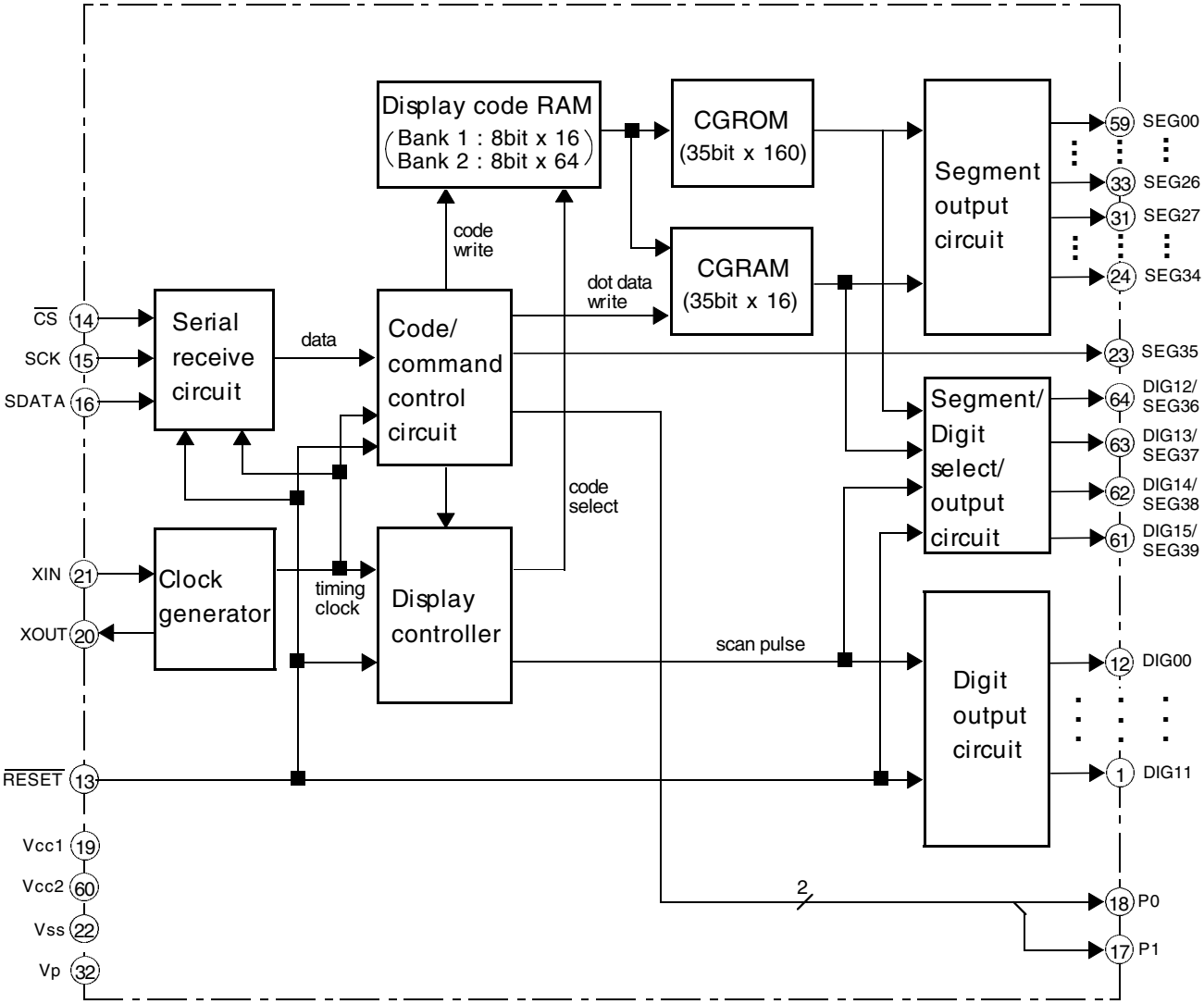
BLOCK DIAGRAM



PIN CONFIGURATION



BLOCK DIAGRAM

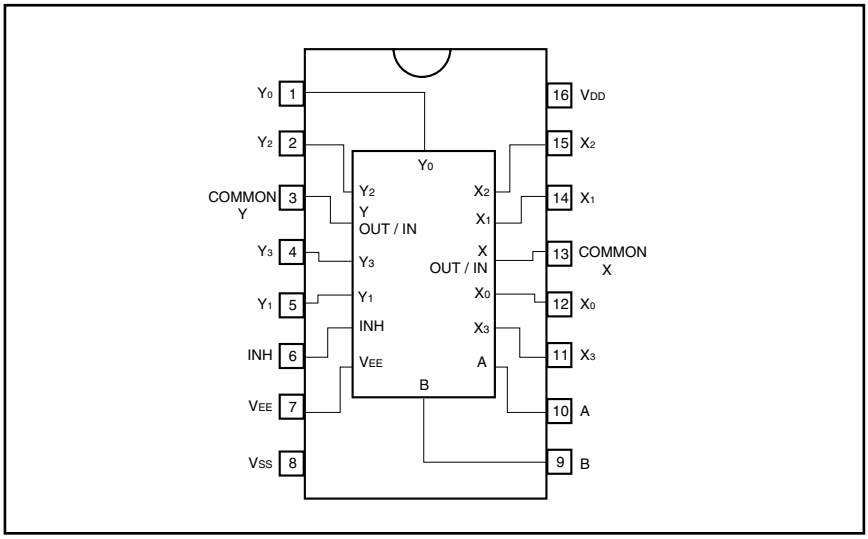


PIN DESCRIPTIONS

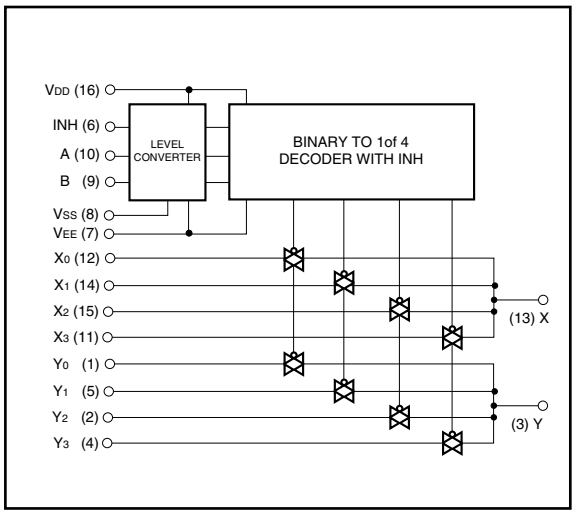
Symbol	Pin name	Comment
$\overline{\text{RESET}}$	Reset input	When "L", M66005 is initialized.
$\overline{\text{CS}}$	Chip select input	When "L", communication with the MCU is possible. When "H", any instruction from the MCU is neglected.
SCK	Shift clock input	Serial input data is taken and shifted by the positive edge of SCK.
SDATA	Serial data input	
XIN , XOUT	Clock input Clock output	When use as a CR oscillator, connect external resistor and capacitor. When use an external clock, input external clock to XIN, and XOUT must be opened.
DIG00~ DIG15	Digit output	Connect to digit (grid) pins of VFD.
SEG00~ SEG39	Segment output	Connect to segment (anode) pins of VFD. Pins from SEG00 to SEG39 correspond to segment pins of VFD as shown in the table below. SEG36~SEG39 pins are common to DIG12~DIG15 pins. So, when use SEG36~SEG39, the number of digit to be used is decreased.
P1, P0	Universal port P1 : bidirectional P0 : output	Generally, use this port as the static output port. This port also operates as the timing IN/OUT port to control another M66005.
Vcc1		Positive power supply for internal logic.
Vcc2		Positive power supply for DIG and SEG outputs.
Vss		GND (0V)
Vp		Negative power supply to pull down.

IC105:BU4052B

Block diagram



Logic circuit diagram

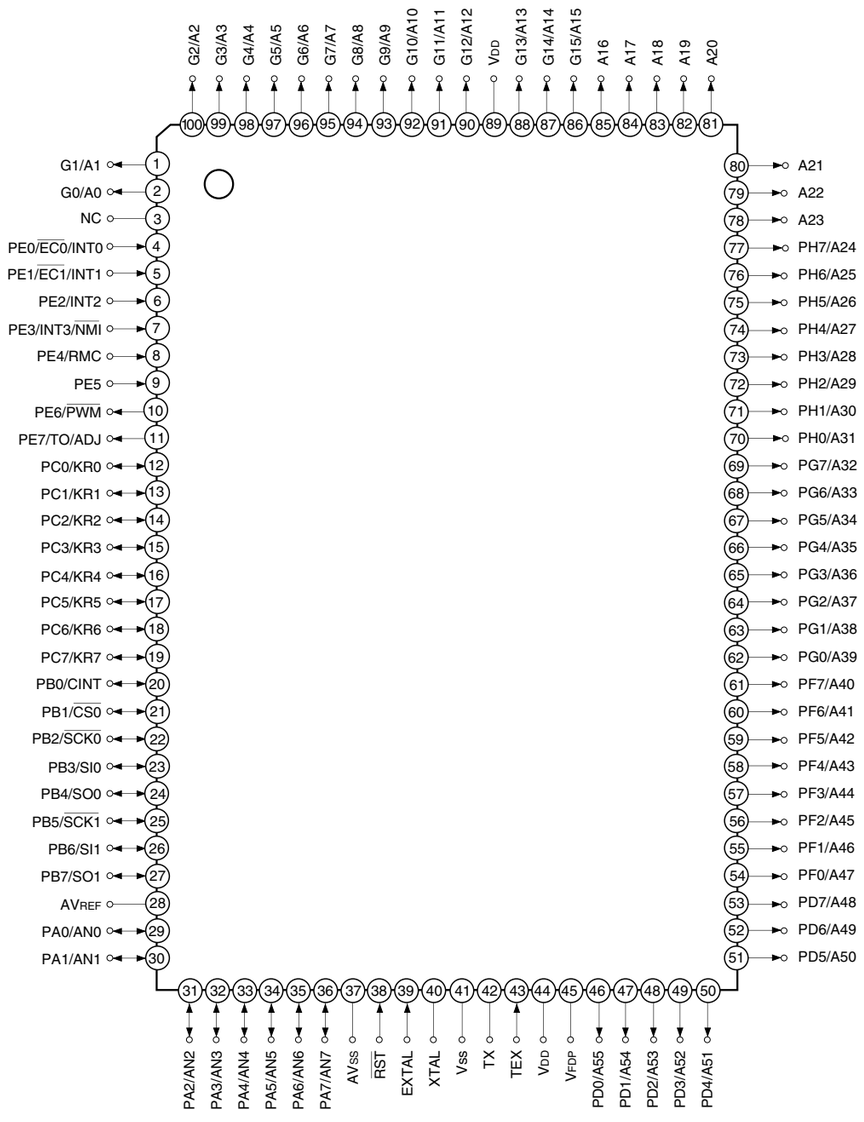


Truth table

INH	A	B	ON SWITCH
L	L	L	X_0 Y_0
L	H	L	X_1 Y_1
L	L	H	X_2 Y_2
L	H	H	X_3 Y_3
H	X	X	NONE

X: Irrelevant

Pin Assignment

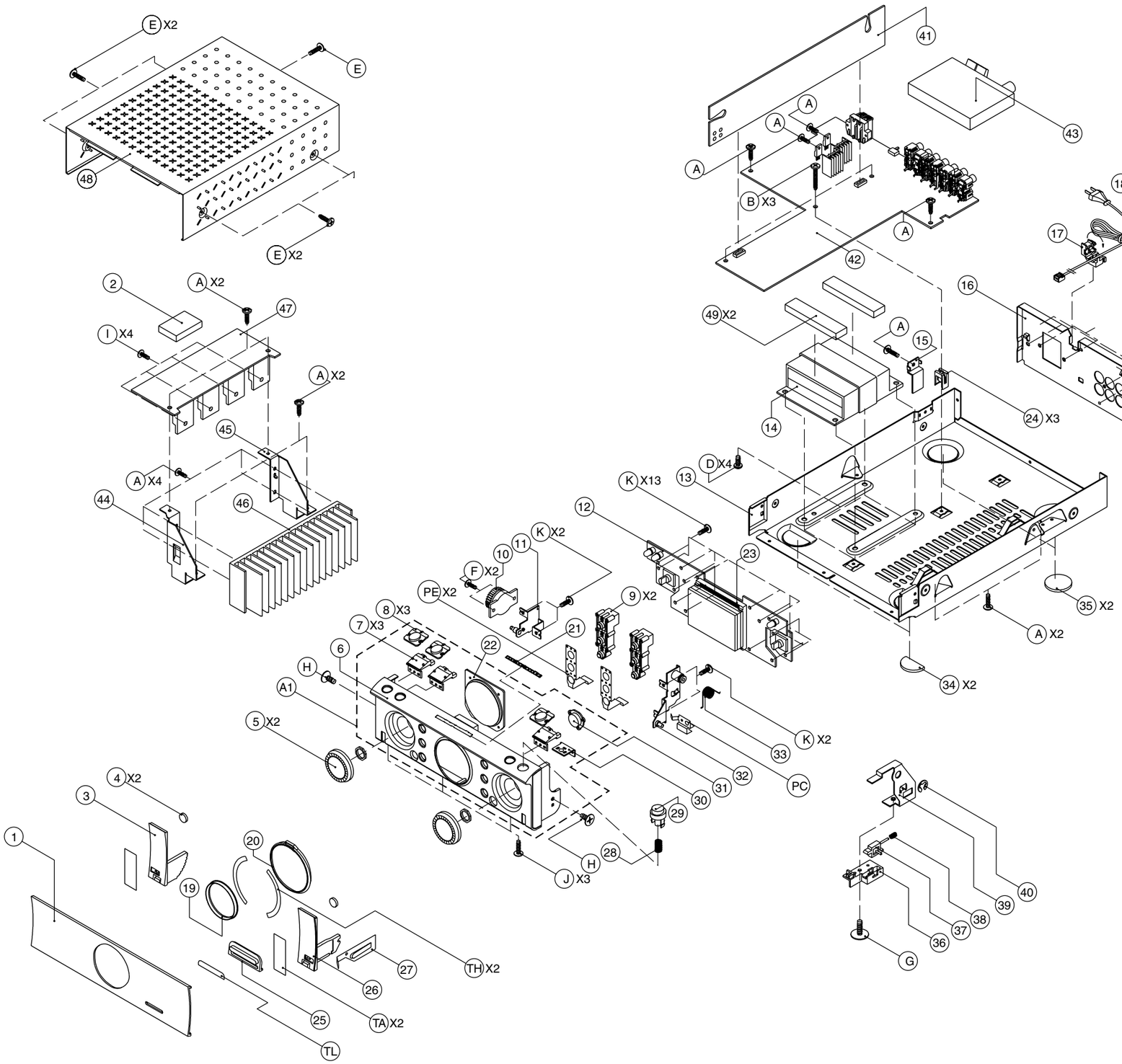


Note) 1. NC (Pin 3) must be connected to V_{DD}.
2. V_{DD} (Pins 44 and 89) must be connected to V_{DD}.

PIN FUNCTION

PIN NO	PIN NAME	description	IN/OUT	ASSIGN	ACTIVEL EVEL	PULL-UP/DOWN	FORM	FORM
1	N.C		O	O			G1	MOS OUT/buff input
2	N.C		O	O			G2	*high input resist*
3	PULL UP(N.C)	+5V POWER SUPPLY for pull-up	+5V	I	High			
4	POWER DOWN	INPUT for power down checking.	I	I	High	PD	PE0	P-ch MOS input
5	VOLUME UP	Input for main volume up	I	I		PD	PE1	schmitt trig input
6	RDS CLK	Clock signal output for BU1924	I	I		PD	PE2	*high input resist*
7	VOLUME DOWN	Input for main volume down	I	I		PD	PE3	
8	REMOCON	INPUT for remocon data	I	I		PD	PE4	
9	RDS DATA IN	INPUT for RDS DATA of BU1924	I	I		PD	PE5	buff out/high resist
10	NC		O	O		PD	PE6	CMOS OUT/high level
11	NC		O	O		PD	PE7	CMOS OUT/high level
12	CLK M66005	Output for CLK of M66005 FLT DRIVE IC	I/O	O			PC0	CMOS OUT/buff input
13	DI M66005	Output for DATA IN of M66005 FLT DRIVE IC	I/O	O			PC1	high current drive
14	JOG VOL UP	Input for JOG volume up	I/O	I			PC2	output(12mA)
15	JOG VOL DOWN	Input for JOG volume DOWN	I/O	I			PC3	
16	RC-5 INPUT	Input for controling RC-5	I/O	I			PC4	
17	STEREO	Input for detecting "STEREO" condtion	I/O	I	Low	PU	PC5	
18	TUNED	Input for detecting "TUNED" condtion	I/O	I	Low	PU	PC6	
19	SDA TDA7440	output for DATA of TDA 7440	I/O	I		PU	PC7	
20	DI LC72131	Input for detecting "SCAN STOP" condtion	I/O	I			PB0	CMOS OUT/schmit
21	CE LC72131	Output for CHIP ENABLE OF LC72131 PLL IC	I/O	O			PB1	trig input
22	CLK LC72131	Clock signal output for LC72131 PLL IC	I/O	O			PB2	*high input resist*
23	DO LC72131	Output for data of LC72131 PLL IC	I/O	I/O			PB3	
24	SCK TDA7440	output for CLOCK of TDA7440	I/O	I/O			PB4	
25	N.C		I/O	I/O			PB5	
26	RC-5 OUT	Grid signal output for FIP	I/O	O			PB6	
27	CE M66005	output CE for M66005	I/O	I/O			PB7	
28	AVREF	Referenc voltage(connected to +5 V)	AVREF		+5V			
29	CE 7821	output for chip enable of LC7821	I/O	O			PA0	CMOS OUT/multiplex
30	KEY IN1	Data input key scan	I/O	I			PA1	input(A/D convert)
31	KEY IN2	Data input key scan	I/O	I			PA2	OR GATE input
32	PROTECT	Input for detecting "PROTECTION" condtion	I/O	I	High		PA3	*high input resist*
33	H/P IN	INPUT for H/P IN	I/O	I	High		PA4	
34	SYSTEM CHECK	INPUT for checking system connetion	I/O	I	High		PA5	
35	SET OPT	Input for selecting set (pull-up : other area pull-down : Marantz	I/O	I			PA7	
36	STEP OPT	According to region, input for selecting the frequency and FM and AM.	I/O	I			PA6	
37	AVSS	Ground	AVSS		0V			
38	RESET	Input for reseting the CPU ("L" condition is active.)	RST	I	Low			
39	EXTAL	Input for 10MHz crystal oscillator.						
40	XTAL	Output for 10MHz crystal oscillator.						
41	VSS	VSS (GROUND)	GND					
42	TX	Input for 38.768KHz sub cryatal oscillator						
43	TEX	Output for 38.768KHz sub cryatal oscillator						
44	+5V BACK UP	VDD +5V	VDD		+5V			
45	VFDP -30V	-30V POWER SUPPLY for FIP(Not used)	VFDP		0V			
46	TUNER MUTE	output for TUNER MUTE (" L" condition is active)	O	O	Low	PD6.8K	PD0	P-ch MOS output
47	MAIN MUTE	Output for F CHANNEL MUTE (" L" condition is active	O	O	Low	PD6.8K	PD1	pull-up resist
48	SPK RLY	Output for "SPEAKER SWITCH IS ON/OFF"	O	O	High	PD	PD2	
49	REM SW	OUTPUT FOR REMOCON & RC-5	O	O	Low	PD	PD3	
50	SUB RLY	Output for "SUB TRANS RLY IS ON/OFF"	O	O	High	PD	PD4	
51	MODE1-2700	output for MODE1 OF NJM2700	O	O		PD	PD5	
52	MODE2-2700	output for MODE2 OF NJM2700	O	O		PD	PD6	
53	MODE3-2700	output for MODE3 OF NJM2700	O	O		PD	PD7	
54	POWER LED(GREEN	Output to drive POWER ON LED(GREEN)	O	O	High	PD100K	PF0	P-ch MOS output
55	STBY LED	Output to drive SYBY LED(RED)	O	O	High	PD100K	PF1	pull-up resist
56	RESET M66005	RESET port for M66005	O	O		PD100K	PF2	
57	N.C		O	O			PF3	
58	CLK LC7821	Clock signal output for LC7821	O	O		PD6.8K	PF4	
59	DATA LC7821	output for data of LC7821	O	O		PD6.8K	PF5	
60	N.C		O	O			PF6	
61	N.C		O	O			PF7	
62~69	N.C	Data input for key scan(Not used)	O	O		PD	PG0	
70~85	S1~S15	SEGMENT signal output for FIP(Not used)	O	O			PH	
86~88	N.C	Not used	O	O			A	
89	VDD	VDD +5V	VDD		+5V			
90	N.C	Not used	O	O			G	
91~100	1G~11G	Grid signal output for FIP(Not used)	O	O			G	

8. EXPLODED VIEW AND PARTS LIST



POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
1		9965 000 10696	PANEL DOOR	323W162010
2		nsp	CUSHION	nsp
3		9965 000 10697	ARM DOOR L	323W002010
4		9965 000 10698	CUSHION DOOR	323W259010
5		9965 000 10699	KNOB VOLUME/MULTI JOG	323W154010
A1		9965 000 10947	FRONT PANEL SUB ASSY	323W248500
6		nsp	PANEL FRONT	323W248010
7		nsp	BUTTON POWER B	323W270030
8		nsp	BUTTON POWER A	323W270010
9		9965 000 10700	BUTTON FUNCTION	323W270020
10		9965 000 10701	DAMPER GEAR	323W130010
11		9965 000 10702	BRACKET DOOR C	323W160060
12	F	nsp	P.C.B ASSY FRONT	nsp
12	N	nsp	P.C.B ASSY FRONT	nsp
12	U	nsp	P.C.B ASSY FRONT	nsp
13		nsp	CHASSIS MAIN	nsp
⚠ 14	F	nsp	MAINS TRANSFORMER	*TS001270R
⚠ 14	N	9965 000 10704	MAINS TRANSFORMER	*TS001250R
⚠ 14	U	nsp	MAINS TRANSFORMER	*TS001260R
15		nsp	BRACKET SIDE	nsp
16	F	nsp	REAR PANEL	nsp
16	N	nsp	REAR PANEL	nsp
16	U	nsp	REAR PANEL	nsp
17	F	nsp	STOPPER CORD	323W259020
17	N U	nsp	STOPPER CORD	323W259030
⚠ 18	F	nsp	MAINS CORD ASSY	*YC000560R
⚠ 18	N	9965 000 10705	MAINS CORD ASSY	*YC000570R
⚠ 18	U	nsp	MAINS CORD ASSY	*YC000580R
19		9965 000 10706	RING DOOR	323W353020
20		9965 000 10707	HOLDER RING	323W353010
21		9965 000 10708	BADGE MARANTZ	323W251010
22		nsp	WINDOW DISPLAY	323W158010
23		nsp	SUPPORTER FLT	nsp
24		nsp	SUPPORTER PCB	nsp
25		9965 000 10709	WINDOW REMOCON B	323W158030
26		9965 000 10713	ARM DOOR R	323W002020
27		nsp	PLATE EARTH A	323W123010
28		9965 000 10714	SPRING DOOR C	323W115010
29		9965 000 10715	KNOB EJECT	323W154020
30		nsp	SUPPORTER EJECT	323W101010
31		nsp	WINDOW REMOCON A	323W158020
32		9965 000 10716	BRACKET DOOR A	323W160010
33		9965 000 10717	SPRING DOOR A	323W115020
34		9965 000 10718	CUSHION FOOT F	323W057010
35		9965 000 10719	CUSHION FOOT B	323W057020
36		9965 000 10720	HOLDER HINGE B	323W271020
37		9965 000 10721	HOLDER HINGE A	323W271010
38		9965 000 10703	SPRING DOOR B	323W115030
39		9965 000 10722	BRACKET DOOR B	323W160020
40		9965 000 10723	E-RING	323W353100
41	F	nsp	P.C.B ASSY CONNECTOR	nsp
41	N	nsp	P.C.B ASSY CONNECTOR	nsp
41	U	nsp	P.C.B ASSY CONNECTOR	nsp
42	F	nsp	P.C.B ASSY MAIN	nsp
42	N	nsp	P.C.B ASSY MAIN	nsp
42	U	nsp	P.C.B ASSY MAIN	nsp
43	F	nsp	TUNER PACK FM	*AV000150R
43	N	9965 000 10724	TUNER PACK FM	*AV000160R
43	U	nsp	TUNER PACK FM	*AV000140R
44		nsp	BRACKET HEATSINK R	nsp
45		nsp	BRACKET HEATSINK L	nsp
46		nsp	HEAT SINK MAIN	nsp
47	F	nsp	P.C.B ASSY AMP	nsp
47	N	nsp	P.C.B ASSY AMP	nsp
47	U	nsp	P.C.B ASSY AMP	nsp
48		9965 000 10725	CABINET TOP	323W257010

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
PE		nsp	PLATE EATRTH "E"	nsp
PC		nsp	PLATE EATRTH "C"	nsp
TA		nsp	TAPE ARM	nsp
TL		nsp	TAPE LENS	nsp
TP		nsp	TAPE PROTECTOR	nsp
TH		nsp	TAPE HOLDER RING	nsp
A		nsp	SCREW TAPPING	nsp
B		nsp	SCREW TAP TITE	nsp
C		nsp	SCREW TAP TITE	nsp
E		nsp	SCREW TAP TITE	nsp
F		nsp	SCREW TAPPING	nsp
G		nsp	SCREW	nsp
H		nsp	SCREW TAP TITE	nsp
i		nsp	SCREW TAPPING ASSY	nsp
J		nsp	SCREW TAP TITE	nsp
K		nsp	SCREW TAP TITE	nsp
			PACKING	
	N	9965 000 10727	USER GUIDE	323W851310
	U	nsp	USER GUIDE	323W851250
	F	nsp	USER GUIDE	323W851110
		9965 000 10726	REMOTE CONTROLLER RC110SR	ZK323W0010
			NOT STANDARD SPARE PARTS	
	U	nsp	CARD	nsp
	F	nsp	CARD	nsp
	U	nsp	CARD	nsp
	F	nsp	CARD	nsp
		nsp	BOX GIFT	323W801010
		nsp	CUSHION SNOW	323W809010
		nsp	ANTENNA LOOP	nsp
		nsp	ANTENNA WIRE	nsp

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

9. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTORS

R✻✻✻: 1) GD05×××140, Carbon film fixed resistor, ±5% 1/4W
R✻✻✻: 2) GD05×××160, Carbon film fixed resistor, ±5% 1/6W
① —— Resistance value

Examples ;
① Resistance value

0.1 Ω 001	10 Ω 100	1 kΩ 102	100 kΩ 104
0.5 Ω 005	18 Ω 180	2.7 kΩ 272	680 kΩ 684
1 Ω 010	100 Ω 101	10 kΩ 103	1 MΩ 105
6.8 Ω 068	390 Ω 391	22 kΩ 223	4.7 MΩ 475

Note : Please distinguish 1/4W from 1/6W by the shape of parts used actually.

CAPACITORS

C✻✻✻: CERAMIC CAP.
3) DD1××××370, Ceramic capacitor
Disc type
Temp.coeff.P350 ～N1000, 50V
② ③
③ —— Capacity value
② —— Tolerance

Examples ;
② Tolerance (Capacity deviation)
±0.25 pF 0
±0.5 pF 1
±5% 5
✻ Tolerance of COMMON PARTS handled here are as follows :
0.5 pF～ 5 pF .... ±0.25 pF
6 pF～ 10 pF .... ±0.5 pF
12 pF～ 560 pF .... ±5%
③ Capacity value

0.5 pF 005	3 pF 030	100 pF 101
1 pF 010	10 pF 100	220 pF 221
1.5 pF 015	47 pF 470	560 pF 561

C✻✻ : CERAMIC CAP.
4) DK16××× 300, High dielectric constant ceramic capacitor
④
Disc type
Temp.chara. 2B4, 50V
④ —— Capacity value

Examples ;
④ Capacity value

100 pF 101	1000 pF 102	10000 pF 103
470 pF 471	2200 pF 222	

C✻✻ : 5) ELECTROLY CAP. (⏚), 6) FILM CAP. (⫩)
5) EA××××××10, Electrolytic capacitor
One-way lead type, Tolerance ±20%
⑤ ⑥
⑥ —— Working voltage
⑤ —— Capacity value

Examples ;
⑤ Capacity value

0.1 µF 104	4.7 µF 475	100 µF 107
0.33 µF 334	10 µF 106	330 µF 337
1 µF 105	22 µF 226	1100 µF 118
		2200 µF 228

⑥ Working voltage

6.3V 006	25V 025
10V 010	35V 035
16V 016	50V 050

6) DF15××× 350 → Plastic film capacitor
DF15××× 310 One-way type, Mylar ±5% 50V
DF16××× 310 → Plastic film capacitor
One-way type, Mylar ±10% 50V
⑦
⑦ —— Capacity value

Examples ;
⑦ Capacity value

0.001 µF (1000 pF) 102	0.1 µF 104
0.0018 µF 182	0.56 µF 564
0.01 µF 103	1 µF 105
0.015 µF 153	

NOTE : 1) The above CODES (R✻✻✻ , R✻✻✻ , C✻✻✻ , C✻✻✻ and C✻✻✻) are omitted on the schematic diagram in some case.
2) On the occasion, be confirmed the common parts on the parts list.
3) Refer to "Common Parts List" for the other common parts (**RI05**, **DD4**, **DK4**).

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows;
1. KOA Corporation

Part No. (MJI)	Type No. (KOA)	Description
NH05×××140	→ RF25S××××ΩJ	(±5% 1/4W)
NH05×××120	→ RF50S××××ΩJ	(±5% 1/2W)
NH85×××110	→ RF73B2A××××ΩJ	(±5% 1/10W)
NH95×××140	→ RF73B2E××××ΩJ	(±5% 1/4W)

✻ Resistance value — Resistance value (0.1 Ω – 10 kΩ)

2. Matsushita Electronic Components Co., Ltd

Part No. (MJI)	Type No. (MEC)	Description
NF05×××140	→ ERD-2FCJ×××	(±5% 1/4W)
RF05×××140		
NF02×××140	→ ERD-2FCG×××	(±2% 1/4W)
RF02×××140		

✻Resistance value — ✻Resistance value

Examples ;
✻ Resistance value

0.1 Ω 001	10 Ω 100	1 kΩ 102	100 kΩ 104
0.5 Ω 005	18 Ω 180	2.7 kΩ 272	680 kΩ 684
1 Ω 010	100 Ω 101	10 kΩ 103	1 MΩ 105
6.8 Ω 068	390 Ω 391	22 kΩ 223	4.7 MΩ 475

ABBREVIATION AND MARKS

ANT.	: ANTENNA	BATT.	: BATTERY
CAP.	: CAPACITOR	CER.	: CERAMIC
CONN.	: CONNECTING	DIG.	: DIGITAL
HP	: HEADPHONE	MIC.	: MICROPHONE
µ-PRO	: MICROPROCESSOR	REC.	: RECORDING
RES.	: RESISTOR	SPK	: SPEAKER
SW	: SWITCH	TRANSF.	: TRANSFORMER
TRIM.	: TRIMMING	TRS.	: TRANSISTOR
VAR.	: VARIABLE	X'TAL	: CRYSTAL

NOTE ON FUSE :

Regarding to all parts of parts code **FS20**xxx**2**xx, replace only with Wickmann-Werke GmbH, Type 372 non glass type fuse.

NOTE ON SAFETY :

Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol ⚠ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意：

⚠がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

010728MIT

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			MAIN CIRCUIT BOARD	
			MAIN-CAPACITORS	
C101				
∫		nsp	CER. CHIP COG100PF-J/50V	nsp
C113				
C116		nsp	ELECT. 4.7UF-M/50V 5x11	nsp
C117		nsp	ELECT. 4.7UF-M/50V 5x11	nsp
C118		nsp	CER. CHIP COG100PF-J/50V	nsp
C119		nsp	CER. CHIP COG100PF-J/50V	nsp
C120		nsp	CER. CHIP COG100PF-J/50V	nsp
C121		nsp	CER. CHIP X7R0.01UF-K/50V	nsp
C122		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C123		nsp	CER. CHIP X7R0.022UF-K/25V	nsp
C124				
∫		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C127				
C128		nsp	CER. CHIP X7R0.01UF-K/50V	nsp
C129		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C130		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C131		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C132		nsp	ELECT. 4.7UF-M/50V 5x11	nsp
C133		nsp	ELECT. 4.7UF-M/50V 5x11	nsp
C134		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C135		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C136		nsp	ELECT. 4.7UF-M/50V 5x11	nsp
C137		nsp	ELECT. 4.7UF-M/50V 5x11	nsp
C138		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C139		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C140		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C141		nsp	ELECT. 1UF-M/50V 5x11-5RE	nsp
C142		nsp	CER. CHIP COG470PF-J/50V	nsp
C143		nsp	CER. CHIP COG470PF-J/50V	nsp
C144		nsp	CER. CHIP COG100PF-J/50V	nsp
C145		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C146		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C147		nsp	CER. CHIP COG100PF-J/50V	nsp
C149		nsp	ELECT. 10UF-M/50V 5x11-5RE	nsp
C150		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C151		nsp	ELECT.	nsp
			100UF-M/25V 6.3x11-5RE.SY	
C152		nsp	ELECT.	nsp
			100UF-M/16V 6.3x11-5RE SMS	
C153		nsp	CER. CHIP COG220PF-J/50V	nsp
C154		nsp	ELECT. 10UF-M/50V 5x11-5RE	nsp
C155		nsp	FILM ST-0.033UF-J/100V-5RE	nsp
C156		nsp	FILM ST-0.01UF-J/100V-5RE	nsp
C157		nsp	FILM RED-0.47UF-K/63V-5RE	nsp
C158		nsp	FILM RED-0.33UF-K/63V-5RE	nsp
C159		nsp	ELECT. 4.7UF-M/50V 5x11	nsp
C160		nsp	ELECT. 4.7UF-M/50V 5x11	nsp
C161		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C162		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C163		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C164		nsp	ELECT. 10UF-M/50V 5x11-5RE	nsp
C165		nsp	CER. CHIP X7R5600PF-K/50V	nsp
C166		nsp	CER. CHIP X7R5600PF-K/50V	nsp
C167		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C169		nsp	ELECT.	nsp
			100UF-M/25V 6.3x11-5RE.SY	
C170		nsp	ELECT. 4.7UF-M/50V 5x11	nsp
C171		nsp	ELECT. 1UF-M/50V 5x11-5RE	nsp
⚠ C172		nsp	ELECT. 330UF-M/63V 12.5x20	EA33706310
C173		nsp	ELECT. 1UF-M/50V 5x11-5RE	nsp
C174		nsp	ELECT. 1UF-M/50V 5x11-5RE	nsp
C175		nsp	CER. CHIP COG470PF-J/50V	nsp
C176		nsp	CER. CHIP COG100PF-J/50V	nsp
C177		nsp	CER. CHIP X7R1000PF-K/50V	nsp
C178		nsp	CER. CHIP X7R1000PF-K/50V	nsp
C179		nsp	CER. CHIP X7R0.01UF-K/50V	nsp

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
C180		nsp	CER. CHIP X7R0.01UF-K/50V	nsp
C181		nsp	CER. CHIP COG100PF-J/50V	nsp
C182		nsp	CER. CHIP COG470PF-J/50V	nsp
C183		nsp	ELECT. 10UF-M/50V 5x11-5RE	nsp
⚠ C186		nsp	ELECT. 2200UF-M/25V 16x25	EA22802510
⚠ C187		nsp	ELECT.	EA10802510
			1000UF-M/25V 12.5x20S.BLK	
C188		nsp	ELECT. 4.7UF-M/50V 5x5-5RE	nsp
C189		nsp	ELECT. 4.7UF-M/50V 5x5-5RE	nsp
C190		nsp	ELECT.	nsp
			100UF-M/10V 5x11-5RE	
C191		nsp	ELECT.	nsp
			100UF-M/10V 5x11-5RE	
C192		nsp	ELECT. 1UF-M/50V 5x11-5RE	nsp
⚠ C193		nsp	FILM RED-0.1UF-K/250V-5RE	nsp
⚠ C194		nsp	FILM RED-0.1UF-K/250V-5RE	nsp
⚠ C195		nsp	FILM RED-0.1UF-K/250V-5RE	nsp
C196		nsp	FILM ST-0.047UF-J/100V-5RE	nsp
C197		nsp	FILM ST-0.047UF-J/100V-5RE	nsp
C198		nsp	FILM ST-0.047UF-J/100V-5RE	nsp
C199		nsp	CER. CHIP COG100PF-J/50V	nsp
C200		nsp	CER. CHIP COG100PF-J/50V	nsp
C201		nsp	ELECT. 0.1UF-M/50V 4x7	nsp
C202		nsp	ELECT. 10UF-M/50V 5x11-5RE	nsp
C203		nsp	ELECT. 10UF-M/50V 5x11-5RE	nsp
C204		nsp	ELECT. 10UF-M/50V 5x11-5RE	nsp
⚠ C205		nsp	ELECT.	EA10802510
			1000UF-M/25V 12.5x20S.BLK	
C206		nsp	FILM RED-0.1UF-K/63V-5RE	nsp
C207		nsp	FILM ST-0.0047UF-J/100V-5RE	nsp
C208		nsp	FILM RED-0.1UF-K/63V-5RE	nsp
C209		nsp	FILM RED-0.1UF-K/63V-5RE	nsp
C210		nsp	FILM RED-0.1UF-K/63V-5RE	nsp
C211		nsp	ELECT. 0.1UF-M/50V 4x7	nsp
C212		nsp	ELECT. 1UF-M/50V 5x11-5RE	nsp
C213		nsp	FILM ST-0.0047UF-J/100V-5RE	nsp
⚠ C214		nsp	CER. DE7150-487F 472MVAI	DK17472840
C215				
∫		nsp	ELECT. 4.7UF-M/50V 5x11	nsp
C218				
C219		nsp	ELECT.	nsp
			0.47UF-M/50V 5x11-5RE	
C220		nsp	ELECT.	nsp
			0.47UF-M/50V 5x11-5RE	
C221		nsp	CER. CHIP COG220PF-J/50V	nsp
C222		nsp	CER. CHIP COG220PF-J/50V	nsp
C506		nsp	ELECT.	nsp
			47UF-M/25V 5x11-5RE.SY	
C507		nsp	CER. CHIP X7R0.01UF-K/50V	nsp
C508		nsp	ELECT. 0.1UF-M/50V 4x7	nsp
C509		nsp	CER. CHIP COG22PF-J/50V	nsp
C510		nsp	CER. CHIP COG22PF-J/50V	nsp
C511		nsp	ELECT. 4.7UF-M/50V 5x11	nsp
C512		9965 000 10730	DOUBLE LAYER(70)	*EX000070R
			IF/5.5V 5x20	
C513		nsp	CER.F0.1UF-Z/50V-52RE	nsp
			MAIN-RESISTORS	
R101		nsp	CHIP 470-J 1/16W	nsp
R102		nsp	CHIP 470-J 1/16W	nsp
R103		nsp	CHIP 470-J 1/16W	nsp
R104		nsp	CHIP 100K-J 1/16W	nsp
R105		nsp	CHIP 100K-J 1/16W	nsp
R106		nsp	CHIP 470-J 1/16W	nsp
R107		nsp	CHIP 470-J 1/16W	nsp
R108		nsp	CHIP 100K-J 1/16W	nsp
R109		nsp	CHIP 100K-J 1/16W	nsp
R110		nsp	CHIP 100K-J 1/16W	nsp

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
R111				
⟆		nsp	CHIP 470-J 1/16W	nsp
R114				
R115				
⟆		nsp	CHIP 100K-J 1/16W	nsp
R120				
R121		nsp	CHIP 470-J 1/16W	nsp
R122		nsp	CHIP 470-J 1/16W	nsp
R123		nsp	CHIP 100K-J 1/16W	nsp
R124		nsp	CHIP 470-J 1/16W	nsp
R127		nsp	CHIP 1K-J 1/16W	nsp
R128		nsp	CHIP 1K-J 1/16W	nsp
R129		nsp	CHIP 1K-J 1/16W	nsp
R130		nsp	CHIP 680K-J 1/16W	nsp
R131		nsp	CHIP 470-J 1/16W	nsp
R132		nsp	470-J 1/5W-52RE-AX	nsp
R133		nsp	CHIP 22K-J 1/16W	nsp
R134		nsp	CHIP 470-J 1/16W	nsp
R135		nsp	CHIP 100K-J 1/16W	nsp
R136		nsp	CHIP 100K-J 1/16W	nsp
R137		nsp	CHIP 470-J 1/16W	nsp
R138		nsp	CHIP 100K-J 1/16W	nsp
R139		nsp	CHIP 43K-J 1/16W	nsp
R140		nsp	CHIP 3K-J 1/16W	nsp
R141		nsp	CHIP 39K-J 1/16W	nsp
R142		nsp	CHIP 9.1K-J 1/16W	nsp
R143		nsp	CHIP 470-J 1/16W	nsp
R144		nsp	470-J 1/5W-52RE-AX	nsp
R145		nsp	1K-J 1/5W-52RE-AX	nsp
R146		nsp	CHIP 1K-J 1/16W	nsp
R147		nsp	CHIP 1K-J 1/16W	nsp
R148		nsp	CHIP 1K-J 1/16W	nsp
R150		nsp	CHIP 100K-J 1/16W	nsp
R151		nsp	CHIP 100K-J 1/16W	nsp
R152		nsp	CHIP 5.6K-J 1/16W	nsp
R153		nsp	CHIP 470-J 1/16W	nsp
R154		nsp	CHIP 470-J 1/16W	nsp
R155		nsp	CHIP 5.6K-J 1/16W	nsp
R156		nsp	CHIP 4.7K-J 1/16W	nsp
R157		nsp	CHIP 1K-J 1/16W	nsp
R158		nsp	150-J 1/5W-52RE-AX	nsp
R159		nsp	150-J 1/5W-52RE-AX	nsp
R160		nsp	CHIP 27K-J 1/16W	nsp
R161		nsp	CHIP 27K-J 1/16W	nsp
R162		nsp	CHIP 1K-J 1/16W	nsp
R163		nsp	CHIP 1K-J 1/16W	nsp
R164		nsp	METAL 100PPM 220-J 1W	GA05221010
R165		nsp	CHIP 27K-J 1/16W	nsp
R166		nsp	METAL 100PPM 10-J 1W	GA05100010
R167		nsp	CHIP 51K-J 1/16W	nsp
R168		nsp	METAL 100PPM 4.7K-J 1/4W	GG05472140
R169		nsp	CHIP 5.1K-J 1/16W	nsp
R170		nsp	CHIP 100K-J 1/16W	nsp
R171		nsp	CHIP 100K-J 1/16W	nsp
R172		nsp	CHIP 3.3K-J 1/16W	nsp
R173		nsp	CHIP 3.3K-J 1/16W	nsp
R174		nsp	CHIP 5.1K-J 1/16W	nsp
R175		nsp	CHIP 47K-J 1/16W	nsp
R176		nsp	CHIP 47K-J 1/16W	nsp
R177		nsp	CHIP 4.7K-J 1/16W	nsp
R178		nsp	CHIP 47K-J 1/16W	nsp
R179		nsp	2.2K-J 1/5W-52RE-AX	nsp
R180		nsp	CHIP 33K-J 1/16W	nsp
R181		nsp	CHIP 51K-J 1/16W	nsp
R182		nsp	CHIP 51K-J 1/16W	nsp
R183		nsp	CHIP 100K-J 1/16W	nsp
R184		nsp	CHIP 100K-J 1/16W	nsp
R185		nsp	2.2K-J 1/5W-52RE-AX	nsp
R186		nsp	CHIP 8.2K-J 1/16W	nsp
R187		nsp	METAL 100PPM 0.22-J 1W	*GA000200R
R188		nsp	METAL 100PPM 0.22-J 1W	*GA000200R
R189		nsp	CHIP 1K-J 1/16W	nsp
R190		nsp	CHIP 1K-J 1/16W	nsp
R191		nsp	CHIP 100K-J 1/16W	nsp
R192		nsp	CHIP 100K-J 1/16W	nsp
R193		nsp	CHIP 2.2K-J 1/16W	nsp
R194		nsp	CHIP 2.2K-J 1/16W	nsp
R195		nsp	CHIP 470K-J 1/16W	nsp
R196		nsp	METAL 100PPM 1K-J 1/4W	GG05102140
R198		nsp	METAL 100PPM 4.7K-J 1/4W	GG05472140
R199		nsp	METAL 100PPM 68-J 1/4W	GG05680140
R200		nsp	1.8K-J 1/5W-52RE-AX	nsp
R202		nsp	47K-J 1/5W-52RE-AX	nsp
R203		nsp	METAL 100PPM 10-J 1W	GA05100010
R204		nsp	METAL 100PPM 10-J 1W	GA05100010
R205		nsp	4.7K-J 1/5W-52RE-AX	nsp
R206		nsp	CHIP 47K-J 1/16W	nsp
R207		nsp	47K-J 1/5W-52RE-AX	nsp
R208		nsp	METAL 100PPM 0.22-J 1W	*GA000200R
R209		nsp	METAL 100PPM 470-J 1W	GA05471010
R210		nsp	METAL 100PPM 470-J 1W	GA05471010
R211		nsp	CHIP 2.2K-J 1/16W	nsp
R212		nsp	CHIP 2.2K-J 1/16W	nsp
R213		nsp	CHIP 560-J 1/16W	nsp
R214		nsp	CHIP 560-J 1/16W	nsp
R215		nsp	CHIP 470-J 1/16W	nsp
R216		nsp	CHIP 470-J 1/16W	nsp
R217	U	nsp	METAL 100PPM ERC-12UGK335	RC05471010
R218		nsp	10K-J 1/5W-52RE-AX	nsp
R219		nsp	4.7-J 1/4W-52RE-AX	nsp
R220		nsp	4.7-J 1/4W-52RE-AX	nsp
R501				
⟆		nsp	CHIP 100K-J 1/16W	nsp
R504				
R505		nsp	CHIP 10K-J 1/16W	nsp
R506		nsp	CHIP 100K-J 1/16W	nsp
R507		nsp	CHIP 10K-J 1/16W	nsp
R510	N	nsp	CHIP 10K-J 1/16W	nsp
R510	U	nsp	CHIP 47K-J 1/16W	nsp
R511	N	nsp	CHIP 4.7K-J 1/16W	nsp
R511	F	nsp	CHIP 47K-J 1/16W	nsp
R514		nsp	CHIP 1M-J 1/16W	nsp
R515		nsp	CHIP 100K-J 1/16W	nsp
R516		nsp	CHIP 1M-J 1/16W	nsp
R517		nsp	CHIP 10K-J 1/16W	nsp
R518		nsp	CHIP 6.8K-J 1/16W	nsp
R519				
⟆		nsp	CHIP 100K-J 1/16W	nsp
R522				
R523		nsp	CHIP 6.8K-J 1/16W	nsp
R524		nsp	CHIP 6.8K-J 1/16W	nsp
R525		nsp	CHIP 100K-J 1/16W	nsp
R527		nsp	CHIP 100K-J 1/16W	nsp
R530		nsp	1K-J 1/5W-52RE-AX	nsp
R531		nsp	1K-J 1/5W-52RE-AX	nsp
R532		nsp	1K-J 1/5W-52RE-AX	nsp
R533		nsp	47K-J 1/5W-52RE-AX	nsp
R534		nsp	1K-J 1/5W-52RE-AX	nsp
R535		nsp	1K-J 1/5W-52RE-AX	nsp
R536		nsp	1K-J 1/5W-52RE-AX	nsp
R537		nsp	1K-J 1/5W-52RE-AX	nsp
R538		nsp	4.7K-J 1/5W-52RE-AX	nsp
R539		nsp	CHIP 100K-J 1/16W	nsp
J501				
⟆		nsp	CHIP 0-J 1/16W	nsp
J511				

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
J513				
⟆		nsp	CHIP 0-J 1/16W	nsp
J517				
J519		nsp	CHIP 0-J 1/16W	nsp
			MAIN-SEMICONDUCTORS	
D105		4822 130 30862	D ZENER MTZJ9.1B-0.5W/5MA-52MM	*HD301970R
D107		4822 130 32778	D SWITCHING 1SS133T-72-52MM	HD20015210
D108		9965 000 10728	D SWITCHING IN4007 52 1000V 1A	*HD201570R
D109		4822 130 11676	D ZENER MTZJ30B-0.5W/5MA-52MM	*HD301670R
D110				
⟆		9965 000 10728	D SWITCHING IN4007 52 1000V 1A	*HD201570R
D112				
⚠ D113		4822 130 83067	D RECTIFIER BRIDGE D3SB20/DBF40C 5A-4PIN	HE20020290
D114		9965 000 10728	D SWITCHING IN4007 52 1000V 1A	*HD201570R
D115		9965 000 10728	D SWITCHING IN4007 52 1000V 1A	*HD201570R
D116				
⟆		4822 130 32778	D SWITCHING 1SS133T-72-52MM	HD20015210
D118				
D119		4822 130 33948	D ZENER MTZJ5.6B-0.5W/5MA-52MM	HD30561000
D120		9965 000 10586	D ZENER MTZJ20B-0.5W/5MA-52MM	*HD301950R
D121		9965 000 10728	D SWITCHING IN4007 52 1000V 1A	*HD201570R
D122		9965 000 10728	D SWITCHING IN4007 52 1000V 1A	*HD201570R
D123		4822 130 80317	D ZENER MTZJ5.1B-0.5W/5MA-52MM	HD30511000
D124		4822 130 32778	D SWITCHING 1SS133T-72-52MM	HD20015210
D125		4822 130 32778	D SWITCHING 1SS133T-72-52MM	HD20015210
D126				
⟆		9965 000 10728	D SWITCHING IN4007 52 1000V 1A	*HD201570R
D129				
D501		9965 000 10747	D SWITCHING CHIP KDS160	*HD201560R
D502		9965 000 10747	D SWITCHING CHIP KDS160	*HD201560R
D503		4822 130 32778	D SWITCHING 1SS133T-72-52MM	HD20015210
D504		4822 130 32778	D SWITCHING 1SS133T-72-52MM	HD20015210
D505		4822 130 80317	D ZENER MTZJ5.1B-0.5W/5MA-52MM	HD30511000
IC101		4822 209 72748	IC LOGIC LC7821 LOW NOISE	HC10228030
IC102		4822 209 17155	IC OP NJM2068M	HC10102090
IC103		9965 000 10741	IC VOICE NJM2700G WOW	*HC107200R
IC104		9965 000 10742	IC LINEAR EQ TDA7440D	*HC107190R
IC105		9965 000 01740	IC LOGIC BU4052BCF	HC40522110
IC106		4822 209 17155	IC LINEAR OP NJM2068M	HC10102090
⚠ IC108		4822 209 60826	IC REG. KIA7812PI 20W	HC3891209F
⚠ IC109		4822 209 73954	IC REG. KIA7912PI 20W	HC3991209F
⚠ IC110		4822 209 31631	IC REG. KIA7805PI 20W	HC3890509F
IC501		9965 000 10743	MICRO PROCESSOR CXP828P60Q-1	*HC106790R
Q101		4822 130 11683	TRS. PNP 2SA KSA916Y 0.9W	*HT100460R
Q102		9965 000 10740	TRS. PNP 2SA KTA1268BL 0.3W	*HT100340R

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
Q103				
⟆		4822 130 41947	TRS. NPN 2SC 2SC3199Y (KTC3199 Y)	HT30001000
Q107				
Q108		9965 000 10744	CHIP TRS. 2SC KTC2875B 0.15W/LOW-ON-RES	*HT300870R
Q109		9965 000 10744	CHIP TRS. 2SC KTC2875B 0.15W/LOW-ON-RES	*HT300870R
Q110		9965 000 10745	CHIP TRS. KRA102S SOT23	*BA001130R
Q111		9965 000 10444	TRS. NPN RC KRC107M 0.4W/TO92M	*BA001070R
Q112		4822 130 41947	TRS. NPN 2SC 2SC3199Y (KTC3199 Y)	HT30001000
Q113		4822 130 41947	TRS. NPN 2SC 2SC3199Y (KTC3199 Y)	HT30001000
Q501		9965 000 10746	CHIP TRS. 2SA KRA107S-SOT23	*BA001170R
			MAIN-MISCELLANEOUS	
		nsp	1P JUMPER (0.6/52MM)	nsp
CP101		nsp	CN.WAFER 2.0MM 35336-0610 6P	nsp
CP102		nsp	CN.WAFER 2.0MM 35336-0710 7P	nsp
CP103		nsp	CN.WAFER 2.5MM 5267-03A 3P	nsp
⚠ CP104		nsp	CN.WAFER 3.96MM 35313-0410	nsp
⚠ CP105		nsp	CN.WAFER 7.92MM YW396-32V 2P	nsp
⚠ CP106		nsp	CN.WAFER 3.96MM 35328-0210	nsp
CP107		nsp	CN.WAFER 2.0MM 53014-0310 3P	nsp
CP501		nsp	CN.FPC 1.25MM 52045-1745 17P ST	nsp
CP502		nsp	CN.WAFER 2.0MM 35336-1610 16P	nsp
F101	N	4822 070 32502	FUSE (5.2x20) 250V-T2.5A-S/V/B/R(TEAR1)	*FS000360R
F101	F U	nsp	FUSE (5.2x20) 125V-S3.15A(TEAR2)	*FS000780R
RCA101		9965 000 10734	TERCA 4PIN DAERYUNG/JK040131PN	*YT002460R
RCA102		9965 000 10736	TERCA 6PIN DAERYUNG/JK060132PN	*YT002480R
RCA103		9965 000 10735	TERCA 4PIN DAERYUNG/JK040131HN	*YT002470R
RLY101		9965 000 10738	RELAY G5PA-28 12V SPK	*LY000270R
⚠ RLY102		9965 000 10737	RELAY G5PA-1-8 12V 5A	*LY000260R
SPK101		9965 000 10733	TE BOARD PUSH 4P P80420771P	*YT002490R
SW101		9965 000 10732	SW SLIDE SSAF112NA011	*SS000700R
⚠ T101	N	9965 000 10729	POWER TRANSFORMER STAND-BY 230V/50HZ 28x15	*TS001350R
⚠ T101	U	nsp	POWER TRANSFORMER STAND-BY 120V/60HZ 28x15	*TS001360R
⚠ T101	F	nsp	POWER TRANSFORMER STAND-BY 100V 50HZ 28x15	*TS001370R
XTAL501		9965 000 10739	RESONATO CERAMIC CST10.0MTW-TF01/	*FQ000350R
XTAL502		9965 000 10731	CRYSTAL 32.768KHZ CFS308-CL;12.5P	*JX000750R

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			AMP CIRCUIT BOARD	
			AMP-CAPACITORS	
C601				
⟆		nsp	CER. CHIP COG100PF-J/50V	nsp
C606				
C701		nsp	ELECT. 4.7UF-M/50V 5x11	nsp
C702		nsp	ELECT. 4.7UF-M/50V 5x11	nsp
C703		nsp	ELECT. 100UF-M/50V	nsp
			8x11.5-5RE.SY	
C704		nsp	CER.B330PF-K/50V-52RE	nsp
C705		nsp	CER.B330PF-K/50V-52RE	nsp
C706		nsp	ELECT. 22UF-M/50V 6x11	nsp
C707		nsp	ELECT. 100UF-M/50V	nsp
			8x11.5-5RE.SY	
C708		nsp	ELECT. 22UF-M/50V 6x11	nsp
C709		nsp	CER.B0.001UF-K/50V-52RE	nsp
C710		nsp	CER.B0.001UF-K/50V-52RE	nsp
C711		nsp	ELECT. 220UF-M/10V	nsp
			6.3x11-5RE.SMS-SY	
C712		nsp	ELECT. 220UF-M/10V	nsp
			6.3x11-5RE.SMS-SY	
C713		nsp	CER.SL1PF-K/50V-52RE	nsp
C714		nsp	CER.SL1PF-K/50V-52RE	nsp
C715				
⟆		nsp	ELECT. 47UF-M/50V	nsp
C718			6.3x11-5RE.SY	
C719				
⟆		nsp	CER.B100PF-K/50V-52RE	nsp
C722				
C723				
⟆		nsp	ELECT. 10UF-M/50V 5x11-5RE	nsp
C726				
			AMP-RESISTORS	
R601		nsp	CHIP 6.8K-J 1/16W	nsp
R602		nsp	CHIP 100K-J 1/16W	nsp
R603		nsp	CHIP 100K-J 1/16W	nsp
R604		nsp	1K-J 1/5W-52RE-AX	nsp
R605		nsp	CHIP 4.7K-J 1/16W	nsp
R606		nsp	CHIP 47-J 1/16W	nsp
R607		nsp	CHIP 2.2K-J 1/16W	nsp
R608		nsp	CHIP 47K-J 1/16W	nsp
R610		nsp	2.2K-J 1/5W-52RE-AX	nsp
R611		nsp	100K-J 1/5W-52RE-AX	nsp
R612		nsp	100-J 1/5W-52RE	nsp
R613		nsp	100K-J 1/5W-52RE-AX	nsp
R701		nsp	1K-J 1/5W-52RE-AX	nsp
R702		nsp	1K-J 1/5W-52RE-AX	nsp
R703		nsp	33K-J 1/5W-52RE-AX	nsp
R704		nsp	33K-J 1/5W-52RE-AX	nsp
R705		nsp	43K-J 1/5W-52RE-AX	nsp
R706		nsp	43K-J 1/5W-52RE-AX	nsp
R707		nsp	10K-J 1/5W-52RE-AX	nsp
R708		nsp	15-J 1/5W-52RE-AX	nsp
R709		nsp	750-J 1/5W-52RE-AX	nsp
R710		nsp	15-J 1/5W-52RE-AX	nsp
R711		nsp	750-J 1/5W-52RE-AX	nsp
R712		nsp	10K-J 1/5W-52RE-AX	nsp
R713		nsp	470-J 1/5W-52RE-AX	nsp
R714		nsp	470-J 1/5W-52RE-AX	nsp
R715		nsp	150-J 1/5W-52RE-AX	nsp
R716		nsp	68-J 1/5W-52RE-AX	nsp
R717		nsp	15-J 1/5W-52RE-AX	nsp
R718		nsp	750-J 1/5W-52RE-AX	nsp
R719		nsp	150-J 1/5W-52RE-AX	nsp
R720		nsp	68-J 1/5W-52RE-AX	nsp
R721		nsp	15-J 1/5W-52RE-AX	nsp
R722		nsp	750-J 1/5W-52RE-AX	nsp
R723		nsp	1.2K-J 1/5W-52RE-AX	nsp

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
R724		nsp	1.2K-J 1/5W-52RE-AX	nsp
R725		nsp	560-J 1/5W-52RE-AX	nsp
R727		nsp	560-J 1/5W-52RE-AX	nsp
R728		nsp	560-J 1/5W-52RE-AX	nsp
R730				
⟆		nsp	560-J 1/5W-52RE-AX	nsp
R738				
R739				
⟆		nsp	82-J 1/5W-52RE-AX	nsp
R742				
R743				
⟆		nsp	22K-J 1/5W-52RE-AX	nsp
R746				
R747		nsp	33K-J 1/5W-52RE-AX	nsp
R748		nsp	33K-J 1/5W-52RE-AX	nsp
R749		nsp	METAL 100PPM	*GA000190R
			RES MF 220 1W	
R750		nsp	METAL 100PPM 220-J 1W	GA05221010
R751		nsp	METAL 100PPM	*GA000190R
			RES MF 220 1W	
R752		nsp	METAL 100PPM	*GA000190R
			RES MF 220 1W	
R753				
⟆		nsp	4.7-J 1/5W-52RE-AX	nsp
R758				
R759		nsp	1.8K-J 1/5W-52RE-AX	nsp
R760		nsp	1.8K-J 1/5W-52RE-AX	nsp
R761		nsp	2K-J 1/5W-52RE-AX	nsp
R762		nsp	2K-J 1/5W-52RE-AX	nsp
R763		nsp	1K-J 1/5W-52RE-AX	nsp
R764		nsp	1K-J 1/5W-52RE-AX	nsp
R765		nsp	6.8K-J 1/5W-52RE-AX	nsp
R766		nsp	6.8K-J 1/5W-52RE-AX	nsp
R767				
⟆		nsp	39-J 1/5W-52RE-AX	nsp
R774				
R775		nsp	22K-J 1/5W-52RE-AX	nsp
R776		nsp	22K-J 1/5W-52RE-AX	nsp
			AMP-SEMICONDUCTORS	
D601		4822 130 10667	D ZENER	HD30471000
			MTZJ4.7B-0.5W/5MA-52MM	
D602		4822 130 32778	D SWITCHING	HD20015210
			1SS133T-72-52MM	
D603		4822 130 10667	D ZENER	HD30471000
			MTZJ4.7B-0.5W/5MA-52MM	
D604		4822 130 80317	D ZENER	HD30511000
			MTZJ5.1B-0.5W/5MA-52MM	
D703		4822 130 32778	D SWITCHING	HD20015210
			1SS133T-72-52MM	
D704		4822 130 32778	D SWITCHING	HD20015210
			1SS133T-72-52MM	
Q601		9965 000 10745	CHIP TRS. KRA102S SOT23	*BA001130R
Q602		9965 000 10744	CHIP TRS. 2SC KTC2875B	*HT300870R
			0.15W/LOW-ON-RES	
Q603		9965 000 10744	CHIP TRS. 2SC KTC2875B	*HT300870R
			0.15W/LOW-ON-RES	
Q604		9965 000 10745	CHIP TRS. KRA102S SOT23	*BA001130R
Q605		9965 000 10753	TRS. NPN 2SC	*BA001150R
			KRC102S SOT23	
Q606		9965 000 10745	CHIP TRS. KRA102S SOT23	*BA001130R
Q607		9965 000 10753	TRS. NPN 2SC	*BA001150R
			KRC102S SOT23	
Q608		9965 000 10745	CHIP TRS. KRA102S SOT23	*BA001130R
Q609		4822 130 90323	CHIP TRS. 2SC	*BA001140R
			DTC114TK 0.2W/SMT	
Q701				
⟆		9965 000 10749	TRS. PNP 2SA KSA992F 0.5W	*HT100590R
Q708				

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
Q709		9965 000 10750	TRS. NPN 2SC KSC1845F 0.5W	*HT300860R
Q710		9965 000 10750	TRS. NPN 2SC KSC1845F 0.5W	*HT300860R
Q711		9965 000 10749	TRS. PNP 2SA KSA992F 0.5W	*HT100590R
Q712		9965 000 10750	TRS. NPN 2SC KSC1845F 0.5W	*HT300860R
Q713		9965 000 10749	TRS. PNP 2SA KSA992F 0.5W	*HT100590R
Q714		9965 000 10750	TRS. NPN 2SC KSC1845F 0.5W	*HT300860R
Q715		4822 130 43012	TRS. PNP 2SA KTA1024Y 1W	HT112082A0
Q716		4822 130 43225	TRS. NPN 2SC KTC3206Y 1W	HT322292A0
Q717		4822 130 43012	TRS. PNP 2SA KTA1024Y 1W	HT112082A0
Q718		4822 130 43225	TRS. NPN 2SC KTC3206Y 1W	HT322292A0
Q719		9965 000 10750	TRS. NPN 2SC KSC1845F 0.5W	*HT300860R
Q720		9965 000 10750	TRS. NPN 2SC KSC1845F 0.5W	*HT300860R
Q721		9965 000 10751	TRS. NPN 2SC SAP09N 80W/LF550(5P)	*HC107160R
Q722		9965 000 10752	TRS. PNP 2SA SAP09P 80W /LF550(5P)	*HC107170R
Q723		9965 000 10751	TRS. NPN 2SC SAP09N 80W/LF550(5P)	*HC107160R
Q724		9965 000 10752	TRS. PNP 2SA SAP09P 80W /LF550(5P)	*HC107170R
			AMP-MISCELLANEOUS	
CP601	N	nsp	CN.FPC 1.25MM 52044-1745 17P ANGLE	nsp
CP601	U	nsp	CN.FPC 1.25MM 52044-1545 15P ANGLE	nsp
CP601	F	nsp	CN.FPC 1.25MM 52044-1545 15P ANGLE	nsp
CP602		nsp	CN.WAFER 2.0MM 35237-1610 16P	nsp
CP603		nsp	CN.WAFER 2.0MM 35237-0610 6P	nsp
CP604		nsp	CN.WAFER 2.0MM 35237-0710 7P	nsp
CP605		nsp	CN.WAFER 2.0MM 53014-0510 5P	nsp
CP701		nsp	CN.WAFER 2.0MM 53014-0410 4P	nsp
CP702		nsp	CN.WAFER 2.5MM 5267-08A 8P	nsp
L701		9965 000 10748	COIL FILTER-INDUCTOR J9000031	*LC106490R
L702		9965 000 10748	COIL FILTER-INDUCTOR J9000031	*LC106490R
			FRONT CIRCUIT BOARD	
			FRONT-CAPACITORS	
C301		nsp	ELECT. 1UF-M/50V 3x5-5RE	nsp
C302		nsp	CER. CHIP Y5V0.047UF-Z/50V	nsp
C303		nsp	ELECT. 47UF-M/16V 6.3x5-5RE.SY	nsp
C304		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C305 ⟆ C308		nsp	CER. CHIP X7R820PF-K/50V	nsp
C309		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C310		nsp	CER. CHIP COG100PF-J/50V	nsp
C312		nsp	CER. CHIP COG100PF-J/50V	nsp
C313		nsp	ELECT. 1UF-M/50V 3x5-5RE	nsp
C314		nsp	CER. CHIP Y5V0.047UF-Z/50V	nsp
C316		nsp	ELECT. 47UF-M/25V 6.3x7-5RE	nsp
C317		nsp	CER. CHIP X7R0.1UF-K/50V	nsp
C318		nsp	CER. CHIP COG220PF-J/50V	nsp
C319		nsp	CER. CHIP COG220PF-J/50V	nsp
C320		nsp	CER. CHIP COG220PF-J/50V	nsp
C321		nsp	CER. CHIP COG100PF-J/50V	nsp
C322		nsp	CER. CHIP Y5V0.047UF-Z/50V	nsp
C323		nsp	ELECT. 1UF-M/50V 3x5-5RE	nsp
C324		nsp	CER. CHIP X7R0.1UF-K/50V	nsp

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
			FRONT-RESISTORS	
R332 ⟆ R355		nsp	CHIP 10K-J 1/16W	nsp
R356 ⟆ R359		nsp	CHIP 220-J 1/16W	nsp
R361		nsp	CHIP 10K-J 1/16W	nsp
R362		nsp	CHIP 2.4K-J 1/16W	nsp
R363		nsp	CHIP 4.3K-J 1/16W	nsp
R364		nsp	CHIP 8.2K-J 1/16W	nsp
R365		nsp	CHIP 24K-J 1/16W	nsp
R367		nsp	CHIP 10K-J 1/16W	nsp
R368		nsp	CHIP 2.4K-J 1/16W	nsp
R369		nsp	CHIP 4.3K-J 1/16W	nsp
R370		nsp	CHIP 8.2K-J 1/16W	nsp
R371		nsp	CHIP 24K-J 1/16W	nsp
R372		nsp	CHIP 1K-J 1/16W	nsp
R373		nsp	CHIP 1K-J 1/16W	nsp
R374		nsp	CHIP 1K-J 1/16W	nsp
R375		nsp	CHIP 100-J 1/16W	nsp
R376		nsp	CHIP 27K-J 1/16W	nsp
R377		nsp	CHIP 4.7K-J 1/16W	nsp
R378		nsp	CHIP 47-J 1/16W	nsp
R379		nsp	CHIP 1.2K-J 1/16W	nsp
R380		nsp	CHIP 470K-J 1/16W	nsp
R381		nsp	CHIP 100K-J 1/16W	nsp
			FRONT-SEMICONDUCTORS	
D301 ⟆ D306		9965 000 10747	D SWITCHING CHIP KDS160	*HD201560R
D307		4822 130 11629	D ZENER MTZJ6.8B-0.5W/5MA-52MM	*HD301620R
IC301		9965 000 10762	IC FL-DRIVER M66005FP	*HC107180R
IR301		9965 000 10754	MODULE REMOCON NJL64H380A	*HW100520R
Q301		9965 000 10753	CHIP TRS. NPN 2SC KRC102S	*BA001150R
Q302		9965 000 10753	CHIP TRS. NPN 2SC KRC102S	*BA001150R
Q303		9965 000 10753	CHIP TRS. NPN 2SC KRC102S	*BA001150R
Q304 ⟆ Q307		9965 000 10745	CHIP TRS. KRA102S SOT23	*BA001130R
Q308 ⟆ Q311		9965 000 10763	CHIP TRS. NPN 2SC KRC107S	*BA001160R
Q312		9965 000 10753	CHIP TRS. NPN 2SC KRC102S	*BA001150R
Q313		9965 000 10753	CHIP TRS. NPN 2SC KRC102S	*BA001150R
			FRONT-MISCELLANEOUS	
FLT301		9965 000 10759	DISPLAY FLT 14-ST-36GN/SR-110	*HQ300460R
CP301		nsp	CN.FPC 1.25MM 52044-1745 17P ANGLE	nsp
CP302		nsp	CN.WAFER 2.5MM 5268-03A 3P ANGLE	nsp
J301 ⟆ J304		nsp	1P JUMPER (0.6/52MM)	nsp
JACK501		9965 000 10756	JACK D3.5 HTJ035-18AB(G)	*YT002500R
L301		nsp	COIL FILTER-INDUCTOR 10UH-Q40/24M-R2.5-52RE	nsp
LED301		9965 000 10757	LED ROUND HL-50CDG GREEN MILKY RESIN	*HI100970R
LED302		9965 000 10757	LED ROUND HL-50CDG GREEN MILKY RESIN	*HI100970R

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

POS. NO	VERS. COLOR	PART NO. (FOR PCS)	DESCRIPTION	PART NO. (MJI)
LED303		9965 000 10758	LED ROUND PI5-RD GR/HLD50RG DUAL	*HI100980R
SW301		9965 000 10760	SW TACT THVH472GAA	*SP001150R
SW302 ∫ SW305		9965 000 10761	SW TACT SKHV10920A 5MM/260G	*SP001140R
SW306		9965 000 10760	SW TACT THVH472GAA	*SP001150R
SW307		9965 000 10761	SW TACT SKHV10920A 5MM/260G	*SP001140R
SW308		9965 000 10760	SW TACT THVH472GAA	*SP001150R
SW309		9965 000 10761	SW TACT SKHV10920A 5MM/260G	*SP001140R
VOL302		9965 000 10755	SW ROTARY EC11B20D2-ZZZ	*SR000160R

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.